

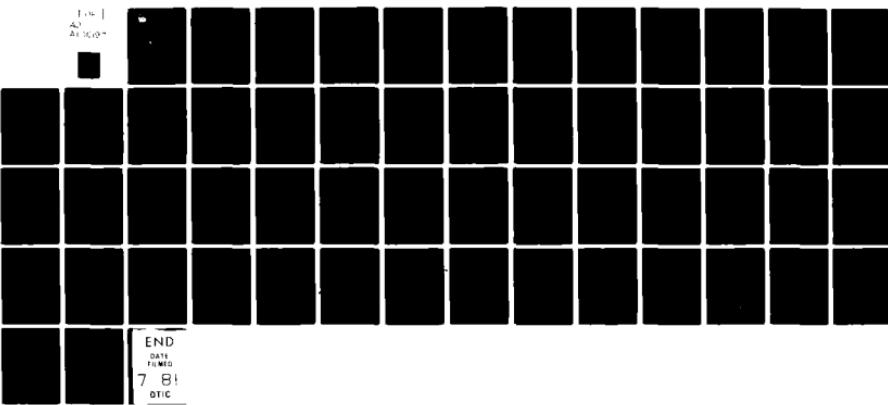
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AIR FORCE OCCUPATIONAL MEASUREMENT CENTER RANDOLPH AFB TX F/6 5/9
AIRCRAFT CONTROL AND WARNING (AC & W) RADAR CAREER LADDER AFSC --ETC(U)
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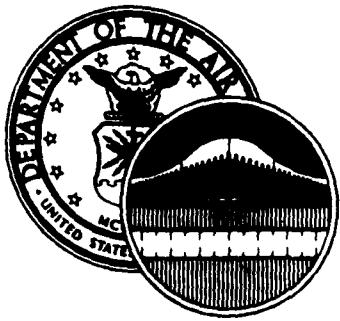
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UNITED STATES AIR FORCE

OCCUPATIONAL SURVEY REPORT

DTIC
2025 RELEASE UNDER E.O. 14176

ELECTRONICS PRINCIPLES INVENTORY (EPI).

AIRCRAFT CONTROL AND WARNING (AC & W)
RADAR CAREER LADDER

AFSC 303X2
AFPT 90-XXX-222
FEBRUARY 1981

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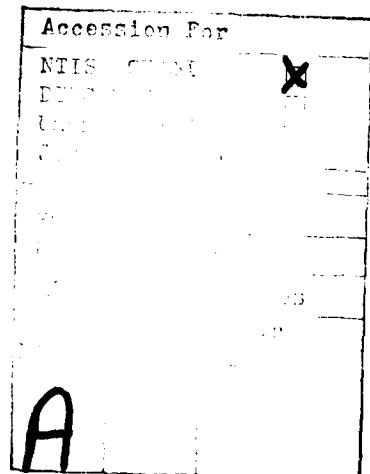
OCCUPATIONAL ANALYSIS PROGRAM
USAF OCCUPATIONAL MEASUREMENT CENTER
AIR TRAINING COMMAND
RANDOLPH AFB, TEXAS 78148

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PREFACE

This report presents the preliminary results of an Air Force Electronics Principles Survey of the Aircraft Control and Warning (AC & W) Radar career ladder (AFSC 303X2). The project was undertaken at the request of Mr. James R. Haupt, Training Manager, Keesler AFB, MS. Authority for conducting electronics principles inventories is contained in AFR 35-2. Computer printouts from which the report was produced are available for use by operating and training officials.

The Electronics Principles Inventory (EPI) was originally developed by Mr. Hendrick W. Ruck and Major Thomas J. O'Conner in 1976. It was revised and updated by Mr. James L. Slovak, Inventory Development Specialist, and Captain Frederick B. Bower, Jr., Occupational Survey Analyst, in 1979.

Captain Michael D. Hill and Mr. Guy B. Cole analyzed the data and wrote the final report. This report has been reviewed and approved by Lieutenant Colonel Jimmy L. Mitchell, Chief, Airman Career Ladders Analysis section, Occupational Analysis Branch, USAF Occupational Measurement Center, Randolph AFB, Texas 78148.

Copies of this report are available to air staff sections, major commands, and other interested training and management personnel upon request to the USAF Occupational Measurement Center, attention to the Chief, Occupational Analysis Branch (OMY), Randolph AFB, Texas 78148.

This report has been reviewed and is approved.

BILLY C. McMASTER, Col, USAF
Commander
USAF Occupational Measurement
Center

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ELECTRONIC PRINCIPLES INVENTORY REPORT
AIRCRAFT CONTROL AND WARNING (AC & W) RADAR CAREER LADDER
(AFSC 303X2)

INTRODUCTION

This is a preliminary report of the Electronic Principles Survey of the Aircraft Control and Warning (AC & W) Radar career ladder (AFSC 303X2). It was completed by the Occupational Analysis Branch, USAF Occupational Measurement Center in February 1981. This preliminary report is intended primarily to provide an overview of electronic principles data by skill levels for immediate use by technical training school personnel. A more comprehensive display of the electronic principles data will be provided in a follow-on report to be published in a few months.

Purpose

The aim of the electronic principles survey program is to provide reliable data on the extent electronic fundamentals training is actually used in the performance of various Air Force jobs.

General Background

The EPI is a knowledge based job inventory which identifies the range of electronic principles personnel must understand to perform any electronics oriented job. Training managers can use EPI data in conjunction with OSR data to determine precisely what specialists do and what electronic principles they employ on the job. By using EPI and OSR data in this manner, training managers satisfy one of the most important aspects of the instructional systems development (ISD) process:

Determine what specialists do on the job before developing a course to train individuals to perform the job.

The USAF Occupational Measurement Center provides job performance data to training personnel in the form of occupational survey reports and training extracts. Such data are presented in task statements which are quantified according to percent members performing, percent time spent, task difficulty, and training emphasis. This task statement data provides a very precise picture of the kinds of functions personnel in a specific AFSC or shred actually perform at a specific point in time. If OSR data is properly applied, it can be a powerful tool in the design of training content.

However, OSR task statements are difficult to translate into knowledge requirements. This is especially true of tasks which require some degree of electronic knowledge. Prior to the development of the EPI, training managers and command representatives had to rely on subjective interpretations of task statements to arrive at the kinds of knowledge required to perform electronic oriented tasks. This requirement of a more objective criteria for determining the amount of electronic knowledge necessary to perform the job resulted in the development of the EPI.

History

The initial request to develop a method of determining electronic fundamentals used on the job was made by Major General Charles G. Cleveland, the Deputy Chief of Staff, Technical Training, Air Training Command, in 1974. At the time, General Cleveland needed some means of accurately measuring how much electronic fundamentals training was actually used on the job. He envisioned using EPI data to streamline training by eliminating "nice to know" information in the area of electronic theory.

At the general's request, Dr. Walter E. Driskill, Chief of the Occupational Analysis Branch, set up a task force to conceptualize, develop, and apply a method for measuring job usage of electronic principles. The task force was composed of personnel from the Occupational Analysis Branch who were well qualified in theoretical physics and electronics. These personnel also had considerable expertise in task analysis and survey development. With the assistance by these individual, electronic experts from five ATC Technical Training Centers, averaging 12 years maintenance experience and four years of electronic principles instruction experience, spent three weeks working on the development of the EPI. This tentative EPI was then reviewed and refined by over 300 maintenance personnel from SAC, TAC, ADC, MAC, and AFSC as well as personnel at the Electronic Engineering Department of the USAF Academy and the Air Force Human Resources Laboratory. The resulting EPI contained 1,257 items under 62 subject matter areas covering all electronic principles training given at the five ATC Technical Training Centers.

During 1977, this EPI was administered to more than 11,000 airmen in 54 different Air Force specialties. Since the aim of the EPI was to determine the extent electronic fundamentals training was actually used in the performance of Air Force jobs, the logical person to survey was one at the worker level with sufficient time on the job to understand all that it entailed. Consequently, only 5-skill level personnel with more than 18 months active duty service were surveyed. Results from this project were used extensively by the various training managers to refine their respective plans of instruction.

This original EPI was revised in 1978 and 1979 to more accurately reflect some of the computer oriented and various other electronic principles. The revision was accomplished by Mr. James L. Slovak, Inventory Development Specialist, and Captain Frederick B. Bower, Jr., Occupational Survey Analyst, after consultation with electronic principles instructors at each of the technical training centers. Following this extensive review, the EPI was reprinted in its current format.

Description

The EPI differs from the usual task oriented survey in two major respects. First, the EPI asks two general questions: "what do you do?" and "what electronic knowledge do you use in performing your job?" The usual task survey concentrates on only one question: "what do you do?" The second difference is the EPI can be administered to anyone who works with electronics. That is, it is general in nature, unlike the usual job inventory which is aimed at a single specialty within a career field.

Administration

This Electronic Principles inventory was administered to personnel in the Aircraft Control and Warning (AC & W) Radar (AFS 303X2) career ladder during the period January through June 1980. Personnel were selected to participate in this survey so as to insure an accurate representation across all MAJCOMs and paygrade groups. Table 1 reflects the major command distribution of personnel assigned as of the fall of 1980 and the distribution of incumbents in the survey sample. The 478 members making up the final sample represent 47 percent of the 1,023 total assigned. Table 2 shows the paygrade distribution of the sample as compared to the assigned strength. Although the number of airmen sampled was quite low, the sampling in the E-4 through E-6 paygrades was very adequate and should accurately reflect the Electronic Principles characteristic of this career ladder.

TABLE 1
COMMAND REPRESENTATION OF SURVEY SAMPLE

<u>MAJOR COMMAND</u>	<u>PERCENT ASSIGNED</u>	<u>PERCENT SAMPLED</u>
TAC	58	64
USAFE	17	13
AFCC	13	14
ATC	4	5
PACAF	3	2
AFSC	2	1
OTHER	<u>3</u>	<u>1</u>
TOTAL	100	100

TOTAL 303X2 ASSIGNED - 1,023
TOTAL 303X2 SAMPLED - 478
PERCENT SAMPLED - 47%

TABLE 2
PAYGRADE DISTRIBUTION OF SURVEY SAMPLE

	<u>PERCENT ASSIGNED</u>	<u>PERCENT SAMPLED</u>
AIRMEN	14	0
E-4	16	36
E-5	36	34
E-6	20	21
E-7	14	8
NOT REPORTED	<u>0</u>	<u>1</u>
TOTAL	100	100

PRESENTATION OF RESULTS

Personnel responded "yes" or "no" to the 1,332 electronic principles questions as related to their present job. A Group Summary (GPSUM) computer printout is provided in the Appendix portion of this report. Page 1 of the GPSUM lists the six selected groups identified for this report. Pages 2-46 show the percentage of the incumbents responding to the EPI items. The computer program results display the percent members answering "yes" to the subject area questions. The reader can locate a specific subject area by referring to the Appendix page number as listed in Table 3. For example, the Transformers area results are given on pages 6-7 of the GPSUM. The percentage of survey respondents indicating use of specific electronic principles ranged from high in areas such as Meters/Multimeters (p. 3), Soldering (p. 10), and Oscilloscopes (p. 12) to low in areas such as Infrared (pp. 42-43), Lasers (pp. 43-44), and Display Tubes (p. 44-45).

TABLE 3
EPI SUBJECT AREAS

<u>SEQUENCE OF SUBJECT AREAS</u>	<u>SUBJECT AREAS TITLE</u>	<u>BEGINNING ITEM NUMBER</u>	<u>GPSUM PAGE NUMBER</u>
1	MATHEMATICS	A1	2
2	DIRECT CURRENT AND VOLTAGE	A16	2
3	RESISTORS/RESISTIVE CIRCUIT	A29	2
4	METER/MULTIMETER	B64	3
5	ALTERNATING CURRENT	B72	4
6	INDUCTORS/INDUCTIVE REACTANCE	B79	4
7	CAPACITORS AND CAPACITIVE	C104	5
8	TRANSFORMERS	C136	6
9	MAGNETISM	C176	7
10	RCL CIRCUITS	D188	7
11	TIME CONSTANTS	D234	9
12	FILTERS	D241	9
13	COUPLING	E257	10
14	SOLDERING	E268	10
15	RELAYS	E281	11
16	MICROPHONES AND SENSING DEVICES	F299	11
17	SPEAKERS	F313	12
18	OSCILLOSCOPES	F328	12
19	SEMICONDUCTOR DIODES	G346	12
20	TRANSISTORS	G388	14
21	TRANSISTOR AMPLIFIERS	G412	15
22	SOLID-STATE SPECIAL PURPOSE DEVICES	H458	17
23	POWER SUPPLIES	H472	18
24	OSCILLATORS	H502	19
25	MULTIVIBRATORS	I533	19
26	LIMITERS AND CLAMPERS	I548	20
27	ELECTRON TUBES	I558	20
28	ELECTRON TUBE AMPLIFIERS AND CIRCUITS	J597	21
29	SPECIAL PURPOSE ELECTRON TUBES	J604	22
30	HETERODYNING AND MODULATION-DE MODULATION (MODEMS)	J618	22
31	AM SYSTEMS	K625	22
32	FM SYSTEMS	K645	23
33	NUMBERING SYSTEMS	K667	24
34	LOGIC FUNCTIONS	L691	25
35	BOOLEAN EQUATIONS	L724	26
36	COUNTERS	L736	27
37	TIMING CIRCUITS	L758	27
38	USE OF SIGNAL GENERATORS	M770	28

TABLE 3 (CONTINUED)

EPI SUBJECT AREAS

<u>SEQUENCE OF SUBJECT AREAS</u>	<u>SUBJECT AREAS TITLE</u>	<u>BEGINNING ITEM NUMBER</u>	<u>GPSUM PAGE NUMBER</u>
39	MOTORS AND GENERATORS	M784	28
40	METER MOVEMENTS	N814	29
41	SATURABLE REACTORS AND MAGNETIC AMPLIFIERS	N826	29
42	WAVESHAPING CIRCUITS	N838	30
43	SINGLE OR INDEPENDENT SIDEBAND SYSTEMS	0852	30
44	PULSE MODULATION SYSTEMS	0882	31
45	ANTENNAS	0922	33
46	TRANSMISSION LINES	P965	34
47	WAVEGUIDES AND CAVITY RESONATORS	P995	35
48	MICROWAVE AMPLIFIERS AND OSCILLATORS	P1038	37
49	REGISTERS	Q1115	39
50	STORAGE DEVICES	Q1122	40
51	DIGITAL TO ANALOG AND ANALOG TO DIGITAL CONVERTERS	Q1149	41
52	PHANTASTRONS	Q1165	41
53	SCHMITT TRIGGERS	Q1166	41
54	CABLE FABRICATION	R1169	41
55	INPUT/OUTPUT (PERIPHERAL) DEVICES	S1171	41
56	PHOTO SENSITIVE DEVICES	S1185	42
57	SYNCHRONOUS VIBRATIONS (CHOPPER CIRCUITS)	S1186	42
58	INFRARED SYSTEMS	T1195	42
59	LASERS	T1223	43
60	DISPLAY TUBES	T1257	44
61	TELEVISION	T1273	45
62	PROGRAMMING	U1283	45
63	DB AND POWER RATIOS	U1327	46

APPENDIX A

OCCUPATIONAL ANALYSIS PROGRAM
(USAFORC (ATC) RANDOLPH AFB TX)

PCT MARS RESP 'YES' - 303X2 DAFSC/CONUS/OS GRPS

TABULATION OF PERCENT MEMBERS RESPONDING 'YES' TO USE OF ELECTRONIC PRINCIPLES
BY 303X2 DAFSC/CONUS/OS SEAS GROUPS IN THE 303X1,2,3 EPI CAREER FIELD.

REPORTS ON THE FOLLOWING GROUPS WERE REQUESTED

GROUP IDENTITY = SPC014	ALL AMN DAFSC 303X2
GROUP IDENTITY = SPC016	ALL AMN DAFSC 303X2
GROUP IDENTITY = SPC017	ALL AMN DAFSC 303X2
GROUP IDENTITY = SPC022	ALL AMN DAFSC 303X2
GROUP IDENTITY = SPC025	ALL AMN DAFSC 303X2 IN CONUS
GROUP IDENTITY = SPC026	ALL AMN DAFSC 303X2 OVERSEAS

CONTAINING 478 MEMBERS.
CONTAINING 272 MEMBERS.
CONTAINING 206 MEMBERS.
CONTAINING 12 MEMBERS.
CONTAINING 65 MEMBERS.
CONTAINING 209 MEMBERS.

PCTI MEMBERS RESP. #453 - 30332 DAFSC/COUNUS/05 CDRPS
TASK GROUP SUMMARY
DEPENDENT MEMBERS OCCONOMIAIC

OCCUPATIONAL ANALYSIS PROGRAM
USAFCOM (ATC) RANDOLPH AFB TX

PCT HRS RESP *YES* - 30332 DAFFC/CONUS/01 COPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DYS-TSK	DIRECT CURRENT AND VOLTAGE										RESISTORS/RESISTIVE CIRCUITS
	5	7	9	5	5	5	5	5	5	5	
ALL	SKL.	SKL.	SKL.	SKL.	SKL.	SKL.	SKL.	SKL.	SKL.	SKL.	
SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	
014	016	017	022	025	026						
A 1 MATH - USE INSTRUMENTS, IN WHICH IT IS NECESSARY TO AMPLIFY OR ATTENUATE READINGS BY POWERS OF 10	73	78	66	67	82	76					
A 2 MATH - USE PUBLICATIONS, IN WHICH IT IS NECESSARY TO MULTIPLY OR DIVIDE BY A POWER OF 10 BEFORE APPLYING THE INFORMATION	55	53	58	67	49	54					
A 3 MATH - REARRANGE AND SOLVE FORMULAS OR EQUATIONS	52	48	57	58	57	45					
A 4 MATH - CALCULATE THE SQUARE ROOT OF A QUANTITY	27	22	34	42	28	20					
A 5 MATH - SOLVE FOR UNKNOWN QUANTITIES	39	35	44	50	42	33					
A 6 MATH - CONVERT NUMBERS TO LOGARITHMS	22	18	28	58	23	16					
A 7 MATH - USE LOGARITHM TABLES IN CALCULATIONS	29	26	34	58	31	24					
A 8 MATH - USE QUADRATIC EQUATIONS	18	15	21	17	22	12					
A 9 MATH - USE THE NATURAL SYSTEM OF LOGARITHMS	13	11	16	50	14	10					
A 10 MATH - PERFORM CALCULATIONS ON VECTOR QUANTITIES	20	17	25	42	23	14					
A 11 MATH - WORK WITH TRIGONOMETRIC FUNCTIONS SUCH AS SINE, COSINE, OR TANGENT	34	30	40	58	49	23					
A 12 MATH - DETERMINE AREAS OF PLANE FIGURES SUCH AS AREAS OF CIRCLES OR TRIANGLES	16	13	20	17	18	11					
A 13 MATH - SOLVE OR USE SIMULTANEOUS EQUATIONS	12	11	14	8	20	9					
A 14 MATH - SOLVE OR USE PROPORTIONS	38	39	38	58	46	36					
A 15 MATH - USE MATHEMATICAL EXPONENTS OR SUBSCRIPTS IN OTHER THAN POWERS OF 10	34	29	40	50	38	26					
A 16 2 DC - USE THE TERM VOLTAGE OR VOLT (V)	90	96	88	92	89	91					
A 17 2 DC - USE THE TERM ELECTROMOTIVE FORCE (EMF)	45	43	48	67	58	41					
A 18 2 DC - USE THE TERM OHM	88	88	88	92	88	89					
A 19 2 DC - USE THE TERM ION	38	38	42	52	52	33					
A 20 2 DC - USE THE TERM DIENE	15	17	13	25	20	17					
A 21 2 DC - USE THE TERM AMPERE	86	86	87	92	85	87					
A 22 2 DC - USE THE TERM NEUTRON	23	26	18	0	35	25					
A 23 2 DC - USE THE TERM COULOMB	24	25	23	0	35	23					
A 24 2 DC - USE THE TERM PROTON	24	27	19	8	38	24					
A 25 2 DC - USE THE TERM ELECTION	74	73	76	83	77	72					
A 26 2 DC - USE THE TERM CURRENT	88	88	88	92	88	89					
A 27 2 DC - USE THE TERM WATTAGE	86	84	89	92	85	84					
A 28 2 DC - DETERMINE HOW BATTERIES MUST BE CONNECTED TOGETHER FOR A SPECIFIC VOLTAGE AND/OR CURRENT	35	35	36	75	45	32					
A 29 3 RESISTORS/RESISTIVE CIRCUITS - WORK WITH	65	66	63	67	63	66					
A 30 3 RESISTORS/RESISTIVE CIRCUITS - INSPECT	74	80	67	75	66	78					
A 31 3 RESISTORS - CLEAN	66	75	53	42	83	73					
A 32 3 RESISTORS - ADJUST	71	78	62	50	86	76					
A 33 3 RESISTORS - MEASURE	72	78	65	58	85	76					
A 34 3 RESISTORS - USE OR REFER TO TEMPERATURE COEFFICIENTS OF CARBON	32	32	32	67	38	30					
A 35 3 RESISTORS - USE OR REFER TO SYMBOLS FOR CARBON	56	56	56	92	69	53					
A 36 3 RESISTORS - USE OR REFER TO SYMBOLS FOR FIXED WIRE	64	67	67	92	77	65					
A 37 3 RESISTORS - USE OR REFER TO SYMBOLS FOR SLIDE TAP	55	59	49	67	71	56					
A 38 3 RESISTORS - USE OR REFER TO SYMBOLS FOR RHOSTATS	70	74	64	83	74	75					
A 39 3 RESISTORS - USE OR REFER TO SYMBOLS FOR POTENTIOMETERS	76	80	70	90	85	79					
A 40 3 RESISTORS - USE OR REFER TO SYMBOLS FOR FIXED FILM	44	49	49	51	92	55					

PCT MARS RESP 'YES' - 303x2 DAFSC/CURRUS/OS GRPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

DY-TASK	5					5				
	ALL	SKL	SKL	LS	O's	ALL	SKL	SKL	LS	O's
	SPC									
	014	C16	C17	022	025	026	027	028	029	030
A 41 3 RESISTORS - USE COLOR CODES WHICH INDICATE OHMIC VALUE OF RESISTANCE	76	81	70	92	85	90	81	70	92	85
A 42 3 RESISTORS - USE COLOR CODES WHICH INDICATE TOLERANCE	74	78	68	92	87	78	71	22	19	33
A 43 3 RESISTORS - USE COLOR CODES WHICH INDICATE FAILURE RATE	21	22	19	33	26	21	73	76	69	75
A 44 3 RESISTORS - USE OR REFER TO SCHEMATIC SYMBOLS WHICH REPRESENT BATTERIES, FUSES, CONDUCTORS, LAMPS, OR SWITCHES	73	76	69	75	75	77				
A 45 3 RESISTIVE CIRCUITS - FUSES - USE OR REFER TO TOTAL RESISTANCE IN	68	71	64	83	77	69				
A 46 3 RESISTIVE CIRCUITS - SERIES - USE OR REFER TO TOTAL CURRENT IN	65	68	61	83	72	67				
A 47 3 RESISTIVE CIRCUITS - SERIES - USE OR REFER TO INDIVIDUAL VOLTAGE DROPS IN	65	69	61	83	75	67				
A 48 3 RESISTIVE CIRCUITS - SERIES - USE OR REFER TO POWER DISSIPATION IN	55	57	53	75	68	55				
A 49 3 RESISTIVE CIRCUITS - SERIES - USE OR REFER TO TOTAL RESISTANCE IN	66	69	63	83	74	67				
A 50 3 RESISTIVE CIRCUITS - SERIES - USE OR REFER TO TOTAL CURRENT IN	62	65	59	83	69	64				
A 51 3 RESISTIVE CIRCUITS - SERIES PARALLEL - USE OR REFER TO INDIVIDUAL VOLTAGE DROPS IN	62	64	59	75	74	61				
A 52 3 RESISTIVE CIRCUITS - SERIES PARALLEL - USE OR REFER TO INDIVIDUAL BRANCH CURRENTS IN	56	58	54	75	65	56				
A 53 3 RESISTIVE CIRCUITS - SERIES PARALLEL - USE OR REFER TO POWER DISSIPATION IN	52	54	50	75	63	52				
A 54 3 PARALLEL RESISTIVE CIRCUITS - USE OR REFER TO TOTAL RESISTANCE IN	67	69	65	75	78	67				
A 55 3 PARALLEL RESISTIVE CIRCUITS - USE OR REFER TO TOTAL CURRENT IN	62	64	60	75	72	63				
A 56 3 PARALLEL RESISTIVE CIRCUITS - USE OR REFER TO INDIVIDUAL VOLTAGE DROPS IN	62	65	58	75	74	63				
A 57 3 RESISTIVE PARALLEL CIRCUITS - USE OR REFER TO INDIVIDUAL BRANCH CURRENTS IN	55	55	54	75	65	54				
A 58 3 RESISTIVE PARALLEL CIRCUITS - USE OR REFER TO POWER DISSIPATION IN	51	52	50	67	62	51				
A 59 3 SERIES RESISTIVE CIRCUITS - SERIES PARALLEL RESISTIVE, OR PARALLEL RESISTIVE CIRCUITS - CALCULATE TOTAL RESISTANCE FOR	62	63	60	67	74	60				
A 60 3 SERIES RESISTIVE CIRCUITS - SERIES PARALLEL RESISTIVE, OR PARALLEL RESISTIVE CIRCUITS - CALCULATE TOTAL CURRENT FOR	57	59	53	67	66	57				
A 61 3 SERIES RESISTIVE CIRCUITS - SERIES PARALLEL RESISTIVE, OR PARALLEL RESISTIVE CIRCUITS - CALCULATE INDIVIDUAL VOLTAGE DROPS FOR	56	59	53	67	68	56				
A 62 3 SERIES RESISTIVE CIRCUITS - SERIES PARALLEL RESISTIVE, OR PARALLEL RESISTIVE CIRCUITS - CALCULATE INDIVIDUAL BRANCH CURRENTS FOR	50	51	50	67	62	46				
A 63 3 SERIES RESISTIVE, SERIES PARALLEL RESISTIVE, OR PARALLEL RESISTIVE CIRCUITS - CALCULATE POWER DISSIPATION FOR	46	47	45	58	58	44				
B 64 1 METERS/MULTIMETERS - USE TO MEASURE RESISTANCE	76	81	70	75	86	79				
B 65 1 METERS/MULTIMETERS - USE TO MEASURE VOLTAGE	76	81	73	75	86	80				

PCT MEMBERS RESP. *YES* - 303X2 : AFSC/CONUS/SOS GRPS
TASK GROUP SUMMARY
PERCENT MEMBERS DEFORMING

OCCUPATIONAL ANALYSIS PROGRAM
USAFORC (ATC) RANDOLPH AFB TX

TASK GROUP SUMMARY		5 S 10 ³				
PERCENT MEMBERS PERFORMING	DO-TSK	ALI. SPC 014	SKL. SPC 016	SKL. SPC 017	SKL. SPC 022	SKL. SPC 025
B 97 3	INDUCTORS/INDUCTIVE REACTANCE - CALCULATE THE TOTAL INDUCTANCE FOR INDUCTORS IN SERIES-PARALLEL CIRCUITS	18	17	20	8	25
B 98 3	INDUCTORS/INDUCTIVE REACTANCE - USE OR REFER TO THE GENERAL RULE THAT CURRENT LAGS VOLTAGE IN AC INDUCTOR CIRCUITS	36	31	43	25	42
B 99 3	INDUCTORS/INDUCTIVE REACTANCE - CALCULATE INDUCTIVE REACTANCE	22	21	25	33	28
B 100 3	INDUCTORS/INDUCTIVE REACTANCE - USE OR REFER TO THE GENERAL RULE THAT INDUCTIVE REACTANCE IS DIRECTLY PROPORTIONAL TO FREQUENCY	28	25	33	25	37
B 101 3	INDUCTORS/INDUCTIVE REACTANCE - WORK WITH POWER INDUCTORS	45	46	45	50	54
B 102 3	INDUCTORS/INDUCTIVE REACTANCE - WORK WITH AUDIO FREQUENCY INDUCTORS	15	13	19	33	14
B 103 3	INDUCTORS/INDUCTIVE REACTANCE - WORK WITH RADIO FREQUENCY INDUCTORS	54	54	53	67	63
C 104 1	CAPACITORS - WORK WITH CAPACITORS OR CIRCUITS CONTAINING CAPACITORS	70	74	65	67	77
C 105 1	CAPACITORS - INSPECT	70	76	62	83	83
C 106 1	CAPACITORS - CLEAN	63	72	50	42	83
C 107 1	CAPACITORS - ADJUST	63	69	55	33	74
C 108 1	CAPACITORS - TEST	60	66	53	33	74
C 109 1	CAPACITORS - DISCHARGE	65	72	57	42	83
C 110 1	CAPACITORS - MEASURE	49	54	43	50	68
C 111 1	CAPACITANCE - USE OR REFER TO DISTRIBUTED CAPACITANCE	20	18	22	25	31
C 112 1	CAPACITANCE - USE OR REFER TO ORBITAL STRESS OF ELECTRONS IN A DIELECTRIC	5	6	5	8	11
C 113 1	CAPACITANCE - USE OR REFER TO FARADS, MICROFARADS, OR PICOFARADS	70	74	66	75	77
C 114 1	CAPACITANCE - USE OR REFER TO	69	71	66	83	77
C 115 1	CAPACITANCE - USE OR REFER TO DIELECTRIC CONSTANT	23	22	24	17	34
C 116 1	CAPACITANCE - USE OR REFER TO WORKING VOLTAGE RATING OF CAPACITORS	62	61	63	75	68
C 117 1	CAPACITANCE - USE OR REFER TO CAPACITIVE REACTANCE	44	44	43	50	55
C 118 1	CAPACITANCE - USE OR REFER TO CAPACITOR COLOR CODES	62	39	47	67	40
C 119 1	CAPACITANCE - WORK WITH CAPACITORS IN DC CIRCUITS	73	77	67	67	83
C 120 1	CAPACITANCE - WORK WITH CAPACITORS IN AC CIRCUITS	71	75	67	67	82
C 121 1	CAPACITANCE - WORK WITH CAPACITORS IN CIRCUITS WITH BOTH DC AND AC	71	75	67	75	83
C 122 1	CAPACITANCE - CALCULATE FOR PARTICULAR CAPACITORS USING FORMULAS	17	17	16	17	28
C 123 1	CAPACITANCE - USE OR REFER TO THE GENERAL RULE THAT CAPACITANCE OF A CAPACITOR IS DIRECTLY PROPORTIONAL TO THE DIELECTRIC CONSTANT	14	14	15	8	23
C 124 1	CAPACITANCE - USE OR REFER TO THE GENERAL RULE THAT CAPACITANCE OF A CAPACITOR IS INVERSELY PROPORTIONAL TO THE DIELECTRIC THICKNESS	14	13	15	8	23
C 125 1	CAPACITANCE - CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN SERIES	28	25	33	50	34

PCT MBR'S RESP 'YES' - 303X2 DAFFSC/CONUS/OS GRPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

OCCUPATIONAL ANALYSIS PROGRAM
 USAFOMC (ATC) RANDOLPH AFB TX

DY-TSK

		A.I.L.	S	7	9	5	5
		SPC	SPC	SPC	SPC	SPC	SPC
	C 126 1 CAPACITANCE - CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN PARALLEL	29	26	34	50	35	23
	C 127 1 CAPACITANCE - CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN SERIES-PARALLEL CIRCUITS	24	23	26	33	31	22
	C 128 1 CAPACITANCE - USE OR REFER TO THE GENERAL RULE THAT CURRENT DOES NOT FLOW THROUGH CAPACITORS, IT ONLY APPEARS TO DO SO	41	41	40	50	48	41
	C 129 1 CAPACITANCE - USE OR REFER TO THE GENERAL RULE THAT CURRENT LEADS VOLTAGE IN AC CAPACITOR CIRCUITS	32	29	36	25	38	28
	C 130 1 CAPACITANCE - USE OR REFER TO THE GENERAL RULE THAT CAPACITIVE REACTANCE IS INVERSELY PROPORTIONAL TO FREQUENCY	29	27	33	25	35	25
	C 131 1 CAPACITANCE - CALCULATE CAPACITIVE REACTANCE	19	18	20	33	28	15
	C 132 1 CAPACITANCE - WORK WITH VARIABLE CAPACITORS	69	73	63	58	75	72
	C 133 1 CAPACITANCE - WORK WITH TRIMMER CAPACITORS	57	56	57	58	58	56
	C 134 1 CAPACITANCE - WORK WITH ELECTROLYTIC (FIXED) CAPACITORS	72	76	66	67	82	75
	C 135 1 CAPACITANCE - WORK WITH OTHER FIXED CAPACITORS	70	74	66	67	76	73
	C 136 2 TRANSFORMERS - WORK WITH TRANSFORMERS - INSPECT	65	70	59	75	71	69
	C 137 2 TRANSFORMERS - WORK WITH TRANSFORMERS - CLEAN	69	74	62	83	78	72
	C 138 2 TRANSFORMERS - ADJUST	62	71	50	33	80	68
	C 139 2 TRANSFORMERS - TROUBLESHOOT	52	56	96	17	65	54
	C 140 2 TRANSFORMERS - DISTINGUISH BETWEEN MUTUAL INDUCTION AND MUTUAL INDUCTANCE (IM)	61	67	53	42	75	65
	C 141 2 TRANSFORMERS - USE THE SYMBOL FOR MUTUAL INDUCTANCE (IM)	9	9	8	0	14	9
	C 142 2 TRANSFORMERS - REFER TO OR USE THE COEFFICIENT OF COUPLING WHEN WORKING WITH	10	10	9	0	12	11
	C 143 2 TRANSFORMERS - CALCULATE TURNS RATIOS USING CURRENT OR VOLTAGE RATIOS	16	17	15	8	27	16
	C 144 2 TRANSFORMERS - REFER TO REFLECTED IMPEDANCE WHEN WORKING WITH	19	19	19	17	20	20
	C 145 2 TRANSFORMERS - CALCULATE IMPEDANCE INTERACTIONS FOR	27	25	29	25	25	26
	C 146 2 TRANSFORMERS - WORK WITH AUTOTRANSFORMERS	10	10	10	8	14	10
	C 147 2 TRANSFORMERS - WORK WITH POWER	45	44	45	58	43	45
	C 148 2 TRANSFORMERS - WORK WITH AUDIO	68	74	61	67	80	72
	C 149 2 TRANSFORMERS - WORK WITH RADIO FREQUENCY	19	16	23	42	15	18
	C 150 2 TRANSFORMERS - WORK WITH SATURABLE CORE	56	55	58	75	58	55
	C 151 2 TRANSFORMERS - CHECK FOR OPEN WINDINGS BY MEASURING RESISTANCE	46	45	58	48	46	46
	C 152 2 TRANSFORMERS - CHECK FOR SHORTED WINDINGS BY MEASURING RESISTANCE	65	70	59	42	80	67
	C 153 2 TRANSFORMERS - CHECK FOR SHORTED WINDINGS BY MEASURING RESISTANCE	63	48	56	33	77	65
	C 154 2 TRANSFORMERS - MEASURE RESISTANCE OF WINDINGS TO DETERMINE STEP-UP OR STEP-DOWN TURNS RATIO	28	31	25	40	29	29
	C 155 2 TRANSFORMERS - MEASURE OUTPUT VOLTAGE TO DETERMINE STEP-UP OR STEP-DOWN TURNS RATIO	42	43	41	42	55	39

PCT MBR'S RESP *YES* - 303x2 DAFSC/CUNUS/OS GRPS

OCCUPATIONAL ANALYSIS PROGRAM
USAFOC (ATC) RANDOLPH AFB TX

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DRY-TSK

		5	7	9	5	5
		SKL	SKL	SKL	US	0's
		SPC	SPC	SPC	SPC	SPC
	014	016	017	022	025	026
C 157 2	TRANSFORMERS - REFER TO BASIC SYMBOLS	71	75	83	76	75
C 158 2	TRANSFORMERS - REFER TO MULTIPLE SECONDARY-WINDINGS SYMBOLS	67	69	83	72	69
C 159 2	TRANSFORMERS - REFER TO MULTIPLE TAP SYMBOLS	69	73	75	77	72
C 160 2	TRANSFORMERS - REFER TO CENTER TAP SYMBOLS FOR	70	73	83	77	73
C 161 2	TRANSFORMERS - REFER TO AIR CORE SYMBOLS FOR	38	35	44	83	42
C 162 2	TRANSFORMERS - REFER TO IRON CORE SYMBOLS FOR	94	40	50	83	46
C 163 2	TRANSFORMERS - REFER TO VARIABLE TRANSFORMER SYMBOLS FOR	62	64	59	75	63
C 164 2	TRANSFORMERS - REFER TO A COMBINATION OF SYMBOLS FOR	59	60	57	83	62
C 165 2	TRANSFORMERS - DETERMINE PHASE RELATIONSHIPS BETWEEN SECONDARY AND PRIMARY VOLTAGES USING SCHEMATIC SYMBOLS	47	46	50	54	44
C 166 2	TRANSFORMERS - DETERMINE OR REFER TO THE TYPE OF CORE	27	24	32	17	22
C 167 2	TRANSFORMERS - REFER TO OR USE THE GENERAL RULE THAT THE	32	30	33	33	40
C 168 2	TRANSFORMERS - EQUAL TO THE VOLTAGE RATIO					28
C 169 2	TRANSFORMERS - USE OR REFER TO STEP-UP OR STEP-DOWN RATIOS	54	56	52	58	53
C 170 2	TRANSFORMERS - CALCULATE VOLTAGE RATIOS USING TURNS RATIOS	22	22	22	8	32
C 171 2	TRANSFORMERS - CALCULATE CURRENT RATIOS USING TURNS RATIOS	16	16	16	0	26
C 172 2	TRANSFORMERS - USE THREE PHASE	58	60	54	75	68
C 173 2	TRANSFORMERS - INSPECT THREE PHASE	55	56	54	83	66
C 174 2	TRANSFORMERS - CLEAN OR LUBRICATE THREE PHASE	45	49	40	33	55
C 175 2	TRANSFORMERS - ADJUST THREE PHASE	38	39	36	17	43
C 176 3	MAGNETISM - USE OR REFER TO PERMANENT MAGNETS	47	49	44	92	65
C 177 3	MAGNETISM - USE OR REFER TEMPORARY MAGNETS	30	28	33	8	34
C 178 3	MAGNETISM - USE OR REFER TO RETENTIVITY OF MAGNETIC MATERIALS	15	14	16	0	14
C 179 3	MAGNETISM - USE OR REFER TO RELUCTANCE OF MAGNETIC MATERIALS	12	10	14	0	12
C 180 3	MAGNETISM - USE OR REFER TO PERMEABILITY OF MAGNETIC MATERIALS	14	14	14	0	15
C 181 3	MAGNETISM - USE OR REFER TO RESIDUAL MAGNETISM	19	16	21	0	17
C 182 3	MAGNETISM - USE OR REFER TO MAGNETIC LINES OF FORCE OR FLUX	31	30	33	17	32
C 183 3	MAGNETISM - USE OR REFER TO WEBER'S THEORY OF FLUX	9	10	9	0	12
C 184 3	MAGNETISM - USE OR REFER TO DOMAIN THEORY OF FLUX	10	11	8	0	11
C 185 3	MAGNETISM - USE OR REFER TO MAGNETIC INDUCTION	26	28	29	17	32
C 186 3	MAGNETISM - USE OR REFER TO FLUX DENSITY	22	22	22	17	22
C 187 3	MAGNETISM - USE OR REFER TO SATURABLE REACTANCE	39	32	36	31	31
D 188 1	RCL CIRCUITS - WORK WITH PC, LR, OR RCL CIRCUITS	58	62	53	50	58
D 189 1	RCL CIRCUITS - USE OR REFER TO VECTORS WHEN WORKING WITH RCL CIRCUITS	14	13	15	17	11
D 190 1	RCL CIRCUITS - USE OR REFER TO PYTHAGOREAN THEOREM WHEN WORKING WITH RCL CIRCUITS	12	11	14	0	12
D 191 1	RCL CIRCUITS - USE OR REFER TO SINE WHEN WORKING WITH RCL CIRCUITS	22	21	23	33	31
D 192 1	RCL CIRCUITS - USE OR REFER TO COSINE WHEN WORKING WITH RCL CIRCUITS	21	20	22	33	31

PCT MBHS RESP *YES*- 333X2 DAFSC/CONUS/OS GRPS

OCCUPATIONAL ANALYSIS PROGRAM
USAFOMC (ATC) RANDOLPH AFB TX

Dy-TSK	PERCENT MEMBERS PERFORMING					
	ALL 014	SKL SPC	SKL SPC	SKL SPC	SKL SPC	SKL 0's
D 193 1 RCL CIRCUITS - USE OR REFER TO TANGENT WHEN WORKING WITH WORKING WITH	10	17	19	33	26	13
D 194 1 RCL CIRCUITS - USE OR REFER TO MATHS WHEN WORKING WITH	43	46	39	42	40	45
D 195 1 RCL CIRCUITS - USE OR REFER TO TRUE POWER (PT) WHEN	25	27	22	17	29	27
D 196 1 RCL CIRCUITS - USE OR REFER TO MAXIMUM POWER (PM) WHEN WORKING WITH	33	35	32	25	40	33
D 197 1 RCL CIRCUITS - USE OR REFER TO AVERAGE POWER (P AVE) WHEN WORKING WITH	43	45	39	25	49	44
D 198 1 RCL CIRCUITS - USE OR REFER TO APPARENT POWER (PA) WHEN WORKING WITH	21	22	21	25	22	22
D 199 1 RCL CIRCUITS - USE OR REFER TO POWER FACTOR (PF) WHEN WORKING WITH	23	22	24	17	28	21
D 200 1 RCL CIRCUITS - USE OR REFER TO RESONANT CIRCUITS WHEN WORKING WITH	48	47	48	33	55	46
D 201 1 RCL CIRCUITS - USE OR REFER TO BANDWIDTH WHEN WORKING WITH	56	58	54	17	65	56
D 202 1 RCL CIRCUITS - USE OR REFER TO SELECTIVITY WHEN WORKING WITH	41	42	40	17	51	41
D 203 1 RCL CIRCUITS - USE OR REFER TO RESONANT FREQUENCY WHEN WORKING WITH	50	51	49	25	57	51
D 204 1 RCL CIRCUITS - USE OR REFER TO HALF POWER POINTS WHEN WORKING WITH	53	54	52	33	60	53
D 205 1 RCL CIRCUITS - USE OR REFER TO BANDPASS REGION WHEN WORKING WITH	49	49	46	17	52	49
D 206 1 RCL CIRCUITS - USE OR REFER TO CIRCUIT Q WHEN WORKING WITH	26	27	24	0	28	28
D 207 1 RCL CIRCUITS - USE OR REFER TO TANK CIRCUITS WHEN WORKING WITH	47	48	47	25	54	47
D 208 1 RCL CIRCUITS - DETERMINE VALUES OF TRIGONOMETRIC FUNCTIONS USING FORMULAS	16	11	21	33	18	9
D 209 1 RCL CIRCUITS - DRAW VOLTAGE, CURRENT, OR IMPEDANCE VECTOR DIAGRAMS FOR CIRCUITS	11	9	14	0	0	9
D 210 1 RCL CIRCUITS - USE OR REFER TO TOTAL IMPEDANCE FOR CAPACITIVE CIRCUITS	25	25	26	0	28	25
D 211 1 RCL CIRCUITS - USE OR REFER TO PHASE ANGLES BETWEEN IMPEDANCE AND RESISTANCE IN CAPACITIVE CIRCUITS	12	1C	16	8	11	1C
D 212 1 RCL CIRCUITS - USE OR REFER TO TOTAL IMPEDANCE FOR SERIES	29	29	3C	8	20	3C
D 213 1 RCL CIRCUITS - USE OR REFER TO IMPEDANCE ANGLES FOR SERIES	11	1C	13	0	11	11
D 214 1 RCL CIRCUITS - USE OR REFER TO APPARENT POWER (PA) FOR SERIES	14	14	15	8	17	13
D 215 1 RCL CIRCUITS - USE OR REFER TO TRUE POWER (PT) FOR SERIES	18	15	17	25	25	17
D 216 1 RCL CIRCUITS - USE OR REFER TO POWER FACTORS (PF) FOR SERIES	17	17	18	0	20	16
D 217 1 RCL CIRCUITS - USE OR REFER TO TOTAL CURRENT FOR PARALLEL	30	29	31	25	28	30
D 218 1 RCL CIRCUITS - USE OR REFER TO IMPEDANCE ANGLES FOR PARALLEL	10	1C	10	8	12	1C

PCT MBR'S RESP *YES* - 303X2 DAFSC/CONUS/OS GRPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

OCCUPATIONAL ANALYSIS PROGRAM
 USAFOMC (ATC) RANDOLPH AFB TX

	TASK	GROUP	SUMMARY	PERCENT MEMBERS PERFORMING					TIME CONSTANTS
				AI	SKI	7	9	5	
			0Y-TSK						
	D 219 1 RCL CIRCUITS - USE THE ASSUMED VOLTAGE METHOD FOR DETERMINING TOTAL IMPEDANCE FOR PARALLEL CIRCUITS - USE OHM'S LAW FOR DETERMINING TOTAL IMPEDANCE FOR PARALLEL			10	9	11	8	12	9
	D 220 1 RCL CIRCUITS - CHECK CAPACITORS USING OHMMETERS			32	29	36	25	29	30
	D 221 1 RCL CIRCUITS - CHECK CAPACITORS USING SUBSTITUTION			55	59	50	33	68	57
	D 222 1 RCL CIRCUITS - CHECK CAPACITORS USING OHMMETERS			43	44	41	17	55	42
	D 223 1 RCL CIRCUITS - CHECK INDUCTORS USING OHMMETERS			54	58	50	33	60	55
	D 224 1 RCL CIRCUITS - CHECK INDUCTORS USING SUBSTITUTION			41	42	40	17	48	41
	D 225 1 RCL CIRCUITS - CHECK RESISTORS USING OHMMETERS			60	65	53	67	77	62
	D 226 1 RCL CIRCUITS - CHECK RESISTORS USING SUBSTITUTION			36	38	33	25	45	37
	D 227 1 RCL CIRCUITS - USE OR REFER TO THE RULE THAT PHASE ANGLE (Θ_{TA}) = 0, POWER FACTOR (PF) = 1, AND APPARENT POWER (PA) = TRUE POWER (PT) FOR RESONANT CIRCUITS			9	9	8	8	9	9
	D 228 1 RCL CIRCUITS - USE OR REFER TO RESONANT FREQUENCIES FOR RCL CIRCUITS - USE OR REFER TO THE GENERAL RULE THAT IMPEDANCE IS MINIMUM AND CURRENT MAXIMUM AT THE RESONANT FREQUENCY			39	38	41	33	42	37
	D 229 1 RCL CIRCUITS - USE OR REFER TO THE GENERAL RULE THAT CURRENT IS MINIMUM AND IMPEDANCE MAXIMUM AT RESONANT FREQUENCY FOR PARALLEL			32	32	33	17	37	31
	D 230 1 RCL CIRCUITS - USE OR REFER TO THE GENERAL RULE THAT LINE POWER POINTS ARE AT 70.7 OF THE PEAK CURRENT VALUE			27	24	32	8	26	23
	D 231 1 RCL CIRCUITS - USE OR REFER TO THE GENERAL RULE THAT HALF BANDWIDTH IS INVERSELY PROPORTIONAL TO THE QUALITY OF THE COIL (Q)			50	51	49	58	60	50
	D 232 1 RCL CIRCUITS - DETERMINE HOW CHANGES IN FREQUENCY, RESISTANCE, CAPACITANCE, OR INDUCTANCE WILL AFFECT CURRENT OR PHASE ANGLES			21	21	22	8	25	21
	D 234 2 TIME CONSTANTS - WORK WITH USE OR REFER TO THE GENERAL RULE THAT A CAPACITOR IS FULLY CHARGED OR DISCHARGED AFTER FIVE (5) TIME CONSTANTS - USE OR REFER TO UNIVERSAL CHARTS FOR CIRCUIT CURRENT OR COMPONENT VOLTAGES AFTER A SPECIFIC TIME FOR RC OR LR CIRCUITS			41	40	41	42	43	40
	D 235 2 TIME CONSTANTS - USE OR REFER TO THE GENERAL RULE THAT A CAPACITOR IS FULLY CHARGED OR DISCHARGED AFTER FIVE (5) TIME CONSTANTS - USE EQUATIONS OR FORMULAS TO DETERMINE THE TIME REQUIRED FOR CIRCUIT CURRENT OR COMPONENT VOLTAGES TO REACH SPECIFIC VALUES FOR PC OR LR CIRCUITS			27	28	26	42	34	26
	D 236 2 TIME CONSTANTS - USE EQUATIONS OR FORMULAS TO DETERMINE THE TIME REQUIRED FOR CIRCUIT CURRENT OR COMPONENT VOLTAGES TO REACH SPECIFIC VALUES FOR PC OR LR CIRCUITS			13	15	11	33	15	15
	D 237 2 TIME CONSTANTS - USE EQUATIONS OR FORMULAS TO DETERMINE THE TIME REQUIRED FOR CIRCUIT CURRENT OR COMPONENT VOLTAGES TO REACH SPECIFIC VALUES FOR PC OR LR CIRCUITS			18	18	17	8	25	17
	D 238 2 TIME CONSTANTS - USE EQUATIONS OR FORMULAS TO DETERMINE THE TIME REQUIRED FOR CIRCUIT CURRENT OR COMPONENT VOLTAGES TO REACH SPECIFIC VALUES FOR PC OR LR CIRCUITS			19	18	20	8	25	17
	D 239 2 TIME CONSTANTS - USE EQUATIONS OR FORMULAS TO DETERMINE COMPONENT VALUES REQUIRED FOR CIRCUIT CURRENT AND COMPONENT VOLTAGES TO REACH SPECIFIC VALUES IN SPECIFIC TIMES			18	18	17	0	22	17
	D 240 2 TIME CONSTANTS - USE OR REFER TO THE GENERAL RULE THAT CURRENT IN LR CIRCUITS REACHES ITS MINIMUM VALUE (OR ZERO) AFTER FIVE			17	15	20	17	17	15
	D 241 3 FILTER CIRCUITS - WORK WITH FILTERS			59	64	52	58	63	65
	D 242 3 FILTER CIRCUITS - INSPECT			59	62	54	67	66	62

OCCUPATIONAL ANALYSIS PROGRAM
USAFOMC (ATC) RANDOLPH AFB TXTASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

			5					5				
			All.	SKL	SKL	US	0's	SPC	SPC	SPC	SPC	SPC
		0 243 3 FILTER CIRCUITS - CLEAN	55	60	48	17	63	60	53	40	17	60
		0 244 3 FILTER CIRCUITS - ALIGN OR ADJUST	48	54	49	25	52	58	52	44	25	58
		0 245 3 FILTER CIRCUITS - TROUBLESHOOT TO COMPONENT PARTS OF	49	53	53	47	56	56	56	51	50	55
		0 246 3 FILTER CIRCUITS - TROUBLESHOOT TO LOW PASS FILTERS	53	57	54	51	55	55	56	51	50	55
		0 247 3 FILTER CIRCUITS - WORK WITH LOW PASS FILTERS	53	54	51	50	55	55	56	51	50	55
		0 248 3 FILTER CIRCUITS - WORK WITH HIGH PASS FILTERS	51	52	49	50	55	52	52	50	50	55
		0 249 3 FILTER CIRCUITS - WORK WITH BAND-REJECT FILTERS	56	58	52	50	57	57	57	50	50	57
		0 250 3 FILTER CIRCUITS - WORK WITH BAND-REJECT FILTERS	39	40	37	50	45	39	45	39	37	45
		0 251 3 FILTER CIRCUITS - DON'T REMEMBER WHICH TYPE OF	17	17	0	0	25	15	15	0	0	25
		0 252 3 FILTER CIRCUITS - WORK WITH L-SECTION	46	44	49	50	52	43	43	49	49	49
		0 253 3 FILTER CIRCUITS - WORK WITH T-SECTION	42	41	45	50	45	42	42	45	45	45
		0 254 3 FILTER CIRCUITS - WORK WITH PI-SECTION	45	42	48	50	49	41	41	45	45	45
		0 255 3 FILTER CIRCUITS - WORK WITH YTTRIUM IRON GARNET (YIG) FILTERS	19	18	20	8	46	1C	1C	8	8	46
		0 256 3 FILTER CIRCUITS - USE EQUATIONS OR FORMULAS TO DETERMINE CAPACITANCE OR INDUCTANCE VALUES REQUIRED FOR SPECIFIC FILTERS	14	15	12	8	17	14	14	14	14	14
		E 257 1 COUPLING DEVICES OR CIRCUITRY - WORK WITH COUPLING	59	62	55	56	71	59	59	55	55	59
		E 258 1 COUPLING DEVICES CIRCUITRY - IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY COMPONENTS ASSOCIATED WITH RC COUPLING	58	60	55	58	65	60	60	58	58	60
		E 259 1 COUPLING DEVICES OR CIRCUITRY - IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY AND COMPONENTS ASSOCIATED WITH IMPEDANCE COUPLING	57	61	52	58	68	60	60	57	57	60
		E 260 1 COUPLING DEVICE OR CIRCUITRY - IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH TRANSFORMER COUPLING	58	61	54	58	68	60	60	58	58	60
		E 261 1 COUPLING DEVICES OR CIRCUITRY - TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THE RC COUPLING	53	58	46	42	6P	56	56	53	53	56
		E 262 1 COUPLING DEVICES OR CIRCUITRY - TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM IMPEDANCE COUPLING	53	59	44	42	71	56	56	53	53	56
		E 263 1 COUPLING DEVICES OR CIRCUITRY - TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM TRANSFORMER COUPLING	54	59	46	42	69	57	57	54	54	57
		E 264 1 COUPLING DEVICES OR CIRCUITRY - WORK WITH DIRECT COUPLED CIRCUITS	57	60	53	50	68	58	58	57	57	58
		E 265 1 COUPLING DEVICES OR CIRCUITRY - WORK WITH CAPACITIVE-RESISTANCE COUPLED CIRCUITS	56	59	53	50	63	58	58	57	57	58
		E 266 1 COUPLING DEVICES OR CIRCUITRY - WORK WITH CAPACITIVE-INDUCTIVE COUPLED CIRCUITS	54	56	51	50	62	55	55	54	54	55
		E 267 1 COUPLING DEVICES OR CIRCUITRY - WORK WITH TRANSFORMER COUPLED CIRCUITS	58	61	54	50	60	59	59	58	58	59
		E 268 2 SOLDERING - PERFORM, INSPECT OR EVALUATE CONNECTIONS	71	75	66	67	74	75	75	75	75	75
		E 269 2 SOLDERING - SOLDER CONNECTIONS	68	77	55	53	67	75	75	75	75	75
		E 270 2 SOLDERING - DESOLDER CONNECTIONS	67	76	55	53	67	75	75	75	75	75
		E 271 2 SOLDERING - PERFORM HIGH RELIABILITY	52	61	40	25	65	65	65	65	65	65
		E 272 2 SOLDERING - INSPECT CONNECTIONS	74	79	68	92	80	79	79	79	79	79
		E 273 2 SOLDERING - CLEAN OR TIN CONNECTIONS	67	77	54	33	80	76	76	76	76	76

PCT MBRs RESP *YES* - 303x2 DAFSC/CONUS/OS GPPS
TAK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

**OCCUPATIONAL ANALYSIS PROGRAM
USAFORC (ATC) RANDOLPH AFB TX**

E 274	2	SOLDERING - MAKE HARWARE CONNECTIONS	5	9	5	5
E 275	2	SOLDERING - MAKE PRINTED CIRCUIT BOARD CONNECTIONS	59	66	50	25
E 276	2	SOLDERING - SOLDER PASSIVE COMPONENTS SUCH AS RESISTORS OR CAPACITORS	67	77	55	33
E 277	2	SOLDERING - SOLDER ACTIVE COMPONENTS SUCH AS SOLID-STATE DIODES OR TRANSISTORS	63	71	53	25
E 278	2	SOLDERING - PERFORM WIRE WRAPPING IN LIEU OF	26	33	17	8
E 279	2	SOLDERING - PERFORM CRIMPING IN LIEU OF	57	64	47	35
E 280	2	SOLDERING - PERFORM WIRE CONNECTIONS USING A 714 PUNCH-ON TOOL IN LIEU OF	12	13	10	0
E 281	3	RELAYS - WORK WITH	71	77	64	75
E 282	3	RELAYS - ADJUST	46	49	41	25
E 283	3	RELAYS - CLEAN	58	67	45	33
E 284	3	RELAYS - INSPECT	66	73	56	75
E 285	3	RELAYS - TROUBLESHOOT	63	71	52	42
E 286	3	RELAYS - MONITOR BIAS OUTPUT	24	32	14	17
E 287	3	RELAYS - REMOVE OR REPLACE	64	73	51	25
E 288	3	RELAYS - PERFORM TASKS ON CONTACTS	51	58	41	33
E 289	3	RELAYS - PERFORM TASKS ON CORES	16	18	14	8
E 290	3	RELAYS - PERFORM TASKS ON COILS	23	24	23	17
E 291	3	RELAYS - PERFORM TASKS ARMATURES	29	32	25	25
E 292	3	RELAYS - PERFORM TASKS ON SPRINGS	33	38	27	25
E 293	3	RELAYS - USE OR REFER TO SCHEMATIC SYMBOLS FOR SINGLE POLE, SINGLE THROW (SPST), NORMALLY OPEN (NO)	61	64	56	75
E 294	3	RELAYS - USE OR REFER TO SCHEMATIC SYMBOLS FOR SINGLE POLE, SINGLE THROW (SPST), NORMALLY CLOSED (NC)	61	64	56	75
E 295	3	RELAYS - USE OR REFER TO SCHEMATIC SYMBOLS FOR SINGLE POLE, DOUBLE THROW (SPDT)	59	61	55	75
E 296	3	RELAYS - USE OR REFER TO SCHEMATIC SYMBOLS FOR DOUBLE POLE, DOUBLE THROW (DPDT)	58	61	55	75
E 297	3	RELAYS - USE OR REFER TO SCHEMATIC SYMBOLS FOR OTHER RELAY SYMBOLS	58	59	57	75
E 298	3	RELAYS - CHECK ELECTRICAL CONTINUITY OF COILS BY MEASURING RESISTANCE	62	68	55	50
F 299	1	MICROPHONES - PERFORM TASKS DEALING WITH MICROPHONES OR OTHER SENSING DEVICES SUCH AS TRANSDUCERS	11	9	14	42
F 300	1	MICROPHONES - INSPECT	6	6	6	33
F 301	1	MICROPHONES - CLEAN	5	5	4	2
F 302	1	MICROPHONES - OPERATE	8	7	9	3
F 303	1	MICROPHONES - TROUBLESHOOT AS FAR AS CHECKING WIRE CONNECTIONS, BUT NOT DOWN TO PARTS	5	5	5	17
F 304	1	MICROPHONES - TROUBLESHOOT DOWN TO PARTS	2	2	2	2
F 305	1	MICROPHONES - REMOVE OR REPLACE PARTS	5	5	4	2
F 306	1	MICROPHONES - REMOVE OR REPLACE PARTS	3	2	3	2
F 307	1	MICROPHONES - PERFORM TASKS ON CARBON	4	4	4	2
F 308	1	MICROPHONES - PERFORM TASKS ON CAPACITOR	1	1	1	1
F 309	1	MICROPHONES - PERFORM TASKS ON CRYSTAL	0	0	0	1

PCT MBR'S RESP *YES* - 303x2 DAFSC/CCNUS/QS CARDS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

OCCUPATIONAL ANALYSIS PROGRAM
 USAFOMC (ATC) RANDOLPH AFB TX

Dy-TSK	A.I.L.	SKL					US				
		SPC	SPC	SPC	SPC	O's	SPC	SPC	SPC	SPC	SPC
F 310 1 MICROPHONE - PERFORM TASKS ON DYNAMIC MICROPHONE - PERFORM TASKS ON VELOCITY RIBBON	4	3	4	17	3	3	5	9	5	5	5
F 311 1 MICROPHONE - PERFORM TASKS ON DYNAMIC MICROPHONE - PERFORM TASKS ON VELOCITY RIBBON	1	1	0	0	2	1	0	0	0	0	0
F 312 1 SPEAKERS - PERFORM TASKS ON TRANSDUCERS DEALING WITH	5	4	7	17	3	4	8	9	5	5	5
F 313 2 SPEAKERS - INSPECT	6	6	5	8	25	5	5	5	5	5	5
F 314 2 SPEAKERS - CLEAN	5	4	5	0	5	4	5	5	5	5	5
F 315 2 SPEAKERS - OPERATE	7	6	7	8	6	6	6	6	6	6	6
F 316 2 SPEAKERS - TROUBLESHOOT AS FAR AS CHECKING WIRE CONNECTIONS BUT NOT DOWN TO PARTS	6	6	7	8	5	7	6	6	6	6	6
F 318 2 SPEAKERS - TROUBLESHOOT DOWN TO PARTS	3	2	3	0	3	2	1	0	0	0	0
F 319 2 SPEAKERS - REMOVE OR REPLACE COMPLETE	6	6	6	0	5	6	1	0	0	0	0
F 320 2 SPEAKERS - REMOVE OR REPLACE PARTS	2	2	1	0	3	2	1	0	0	0	0
F 321 2 SPEAKERS - PERFORM TASKS ON CONES	1	1	1	0	2	1	1	0	0	0	0
F 322 2 SPEAKERS - PERFORM TASKS ON SPIDERS	1	1	0	0	2	1	1	0	0	0	0
F 323 2 SPEAKERS - PERFORM TASKS ON FIELD COILS	1	1	0	0	2	1	1	0	0	0	0
F 324 2 SPEAKERS - PERFORM TASKS ON VOICE COILS	1	1	0	0	2	1	1	0	0	0	0
F 325 2 SPEAKERS - PERFORM TASKS ON PERMANENT MAGNETS	1	1	0	0	2	1	1	0	0	0	0
F 326 2 SPEAKERS - PERFORM TASKS ON ELECTROMAGNETS	1	1	0	0	2	1	1	0	0	0	0
F 327 2 SPEAKERS - PERFORM TASKS ON SOFT IRON CORES	1	1	0	0	2	1	1	0	0	0	0
F 328 3 OSCILLOSCOPES - USE	78	82	72	58	83	82	58	69	82	81	82
F 329 3 OSCILLOSCOPES - USE TO PERFORM OPERATIONAL CHECKS	76	81	69	58	82	81	60	42	77	73	73
F 330 3 OSCILLOSCOPES - USE TO PERFORM ALIGNMENTS OR ADJUSTMENTS	68	74	60	42	77	73	67	58	42	77	73
F 331 3 OSCILLOSCOPES - USE TO TROUBLESHOOT ELECTRONIC CIRCUITS	67	75	71	58	60	60	66	50	60	60	60
F 332 3 OSCILLOSCOPES - USE TO MEASURE FREQUENCY	71	75	71	58	62	62	77	62	62	62	62
F 333 3 OSCILLOSCOPES - USE TO MEASURE TIME	77	82	71	67	82	82	70	56	42	37	37
F 334 3 OSCILLOSCOPES - USE TO OBSERVE LISSAJOUS PATTERNS	28	30	26	26	42	37	28	26	26	26	26
F 335 3 OSCILLOSCOPES - USE TO OBSERVE SIGNALS WHILE UTILIZING ATTENUATOR PROBES	74	78	68	67	82	77	74	60	67	69	69
F 336 3 OSCILLOSCOPES - USE TO MAKE FREQUENCY OR TIME MEASUREMENTS USING DELAY TIME MULTIPLIERS	72	76	67	58	80	75	71	67	67	67	67
F 337 3 OSCILLOSCOPES - USE TO MEASURE AC VOLTAGE	74	79	68	67	80	75	71	67	67	67	67
F 338 3 OSCILLOSCOPES - USE TO MEASURE OR OBSERVE SIGNALS AFTER FIRST ADJUSTING THE GAIN AND DC BAL CONTROLS	70	72	67	58	75	71	60	51	58	56	56
F 339 3 OSCILLOSCOPES - USE TO MEASURE DC VOLTAGE	74	79	67	67	82	78	64	68	59	66	66
F 340 3 OSCILLOSCOPES - USE TO OBSERVE DATA PATTERNS	69	63	57	67	82	78	66	60	67	68	68
F 341 3 OSCILLOSCOPES - USE TO MEASURE RIPPLE VOLTAGE	72	76	66	67	80	76	71	60	67	71	71
F 342 3 OSCILLOSCOPES - USE TO MEASURE PHASE JITTER	56	60	51	58	66	66	53	42	81	71	71
F 343 3 OSCILLOSCOPES - USE TO DISPLAY SWEEP GENERATOR PATTERNS	64	68	59	58	66	66	66	60	67	69	69
F 344 3 OSCILLOSCOPES - USE TO OBSERVE PHASE RELATIONSHIPS	66	71	60	67	74	74	69	64	67	71	71
F 345 3 OSCILLOSCOPES - USE TO OBSERVE SAMPLING DISPLAYS	60	64	55	58	65	64	60	55	58	65	65
F 346 1 SEMICONDUCTOR DIODES - WORK WITH	71	74	66	67	82	72	67	60	67	71	71
F 347 1 SEMICONDUCTOR DIODES - INSPECT	67	72	60	67	71	71	64	53	92	81	81
F 348 1 SEMICONDUCTOR DIODES - CHECK	64	73	53	42	81	71	61	51	58	66	66
F 349 1 SEMICONDUCTOR DIODES - USE ENERGY LEVEL DIAGRAMS	7	6	8	8	9	5	5	5	5	5	5
F 350 1 SEMICONDUCTOR DIODE - USE PN JUNCTION CHARACTERISTIC CURVES, TOGETHER WITH VALUES OF FORWARD AND REVERSE BIAS VOLTAGE, TO COMPUTE FORWARD OR REVERSE BIAS RESISTANCE	14	15	12	0	2	1	1	1	1	1	1

SEMICONDUCTOR DIODES

PCT MARKS RESP *YES* - 303x2 GRAPHIC/CONUS/OS GRPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

OCCUPATIONAL ANALYSIS PROGRAM
 USAF/CPC (ATC), RANDOLPH AFB TX

	Dy-TSK	All					
		SKL SPC	SKL SPC	SKL SPC	SKL SPC	SKL SPC	SKL SPC
		014	017	022	025	026	018
		5	7	9	5	5	0
		5	7	9	5	5	0
		5	7	9	5	5	0
		22	24	18	17	32	22
		54	53	54	67	67	52
		64	68	60	67	74	67
		15	14	16	8	18	12
		54	55	52	58	62	54
		29	25	33	58	57	22
		55	58	50	58	71	55
		52	51	53	58	55	50
		11	10	12	8	17	8
		68	72	63	67	77	71
		66	69	62	67	75	67
		20	19	20	17	20	20
		38	37	40	50	43	35
		15	13	17	0	15	12
		51	52	50	50	63	49
		12	13	11	17	14	11
		9	9	10	9	9	9
		12	11	14	6	12	11
		12	12	12	9	16	11
		15	15	8	18	13	
		26	28	29	25	29	28
		13	12	14	8	18	11
		12	11	14	8	15	10

DRAFT M882 REISP : YES! - 303X2 COMM/03 6883

TASK GROUP SUMMARY
DESCENT MEMBERS PREDEMON

**OCCUPATIONAL ANALYSIS PROGRAM
USAFOMC (ATC) RANDOLPH AFB TX**

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

**TASK GROUP SUMMARY
PERCENT MEMBERS PERF**

X-151

6 424 3 TRANSISTOR AMPLIFIERS - USE THE LOAD-LINE METHOD OF
 6 ANALYSIS IN YOUR CIRCUIT ANALYSIS (REQUIRES PLOTTING A
 6 LOAD-LINE ON A TRANSISTOR CHARACTERISTIC CURVE)
 6 425 3 TRANSISTOR AMPLIFIERS - USE OR REFER TO THE OPERATING
 6 POINT (Q-POINT) FOR A TRANSISTOR
 6 426 3 TRANSISTOR AMPLIFIERS - MEASURE VOLTAGE GAIN
 6 427 3 TRANSISTOR AMPLIFIERS - MEASURE CURRENT GAIN
 6 428 3 TRANSISTOR AMPLIFIERS - MEASURE POWER GAIN
 6 429 3 TRANSISTOR AMPLIFIERS - USE OR REFER TO THE VOLTAGE GAIN
 6 FOR SPECIFIC TRANSISTORS BY DIVIDING THE CHANGE IN BASE-
 6 COLLECTOR VOLTAGE INTO THE CHANGE OF THE BASE-
 6 COLLECTOR VOLTAGE
 6 430 3 TRANSISTOR AMMETERS - IDENTIFY ON SCHEMATIC DIAGRAMS -

6 431 3 TRANSISTOR AMPLIFIERS - IDENTIFY ON SCHEMATIC DIAGRAMS, WHILE TROUBLESHOOTING THE COMPONENTS ASSOCIATED WITH Emitter (Swamping) Resistor Stabilization

6 432 3 TRANSISTOR AMPLIFIERS - IDENTIFY ON SCHEMATIC DIAGRAMS, WHILE TROUBLESHOOTING THE COMPONENTS ASSOCIATED WITH Self-Bias Stabilization

U 432 5 TRANSISTOR AMPLIFIERS - IDENTIFY ON SCHEMATIC DIAGRAMS, WHILE TROUBLESHOOTING THE COMPONENTS ASSOCIATED WITH SELF-BIAS THERMISTOR STABILIZATION

U 433 3 TRANSISTOR AMPLIFIERS - IDENTIFY ON SCHEMATIC DIAGRAMS, WHILE TROUBLESHOOTING THE COMPONENTS ASSOCIATED WITH FORWARD BIAS DIODE STABILIZATION

6 434 3 TRANSISTOR AMPLIFIERS - IDENTIFY ON SCHEMATIC DIAGRAMS, WHILE TROUBLESHOOTING THE COMPONENTS ASSOCIATED WITH REVERSE BIAS DIODE STABILIZATION

6 435 3 TRANSISTOR AMPLIFIERS - IDENTIFY ON SCHEMATIC DIAGRAMS, WHILE TROUBLESHOOTING THE COMPONENTS ASSOCIATED WITH DUAL FET DIODE STARTUP/TATON

G 436 3 TRANSISTOR AMPLIFIERS - IDENTIFY OR TROUBLESHOOT
 G 437 3 TRANSISTOR AMPLIFIERS - IDENTIFY FREQUENCY DISTORTION
 G 438 3 TRANSISTOR AMPLIFIERS - IDENTIFY PHASE DISTORTION
 G 439 3 TRANSISTOR AMPLIFIERS - NEED TO KNOW THE DEGENERATIVE

EFFECTS ON THE CIRCUIT CAUSED BY CHANGING Emitter RESISTANCE

G 443 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR
 G 444 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR
 CONNECTED
 G 445 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR
 CONNECTED

All.	SK:	SKL			US			0's	
		SPC							
16	18	19	0	20	17				
34	32	36	25	49	26				
24	23	25	17	37	19				
27	27	28	17	37	24				
14	13	14	8	17	13				
21	21	21	17	20	19				
20	19	22	17	32	16				
18	17	20	17	32	13				
22	22	22	6	35	19				
22	22	21	8	35	19				
16	15	17	8	26	13				
28	26	31	42	38	23				
24	23	26	33	34	26				
21	21	22	33	31	18				
18	16	17	17	28	15				
18	19	17	8	28	17				
26	27	24	8	34	26				
34	34	37	25	52	29				
20	21	19	25	37	18				
20	21	19	25	34	18				
31	31	31	17	45	28				

**TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING**

			DY-TSK						5 0's
			ALJ	SKL	SKL	SPC	SPC	SPC	
G 446	3	TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR VOLTAGE MULTIPLIERS (DOUBLERS/TRIPLERS)	34	35	33	25	52	3C	
G 447	3	TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR RF	40	42	39	25	62	36	
G 448	3	TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR MEDIUMBAND	40	41	38	25	60	3C	
I	1	6 449 (VIDEO)							
I	1	6 450 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR AUDIO OR POWER	12	12	11	8	15	11	
I	1	6 451 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR PUSH-PULL	38	39	37	17	60	33	
I	1	6 452 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR PARAPHASE OPERATIONAL (OP)	27	29	24	17	35	27	
I	1	6 453 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR COMPLEMENTARY SYMMETRY	18	19	17	25	32	16	
I	1	6 454 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR DIFFERENTIATING (DIFF)	40	42	39	25	67	36	
I	1	6 455 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR INTEGRATING (OP)	32	34	30	25	51	29	
I	1	6 456 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR INTEGRATING	32	31	32	25	52	25	
I	1	6 457 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR SUMMING	28	29	27	25	46	24	
I	1	H 458 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR REFER TO VARACTORS/VARICAPS	29	29	29	17	49	23	SOLID-STATE SPECIAL PURPOSE DEVICES
I	1	H 459 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR REFER TO TUNNEL DIODES	37	38	35	50	49	36	
I	1	H 460 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR REFER TO FIELD-EFFECT TRANSISTORS (FET)	30	29	32	50	45	23	
I	1	H 461 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR REFER TO UNJUNCTION TRANSISTORS	38	38	39	50	62	31	
I	1	H 462 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR REFER TO ZENER DIODES	45	45	45	42	68	39	
I	1	H 463 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR REFER TO INTEGRATED CIRCUITS	68	69	67	58	70	67	
I	1	H 464 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR REFER TO PIN DIODES	55	55	55	67	74	49	
I	1	H 465 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR REFER TO LEDS/ICDS	33	33	25	52	26		
I	1	H 466 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR REFER TO FANTAIL TRANSISTORS	41	41	41	50	71	32	
I	1	H 467 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR REFER TO TRIACs	57	54	60	58	77	48	
I	1	H 468 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR REFER TO SILICON CONTROL RECTIFIERS (SCRs)	16	14	18	25	31	1C	
I	1	H 469 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR REFER TO PROGRAMMABLE UNJUNCTION TRANSISTOR (PUT)	13	8	14	17	15	6	
I	1	H 470 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR REFER TO SILICON CONTROLLED SWITCH (SCS)	16	15	17	25	28	11	
I	1	H 471 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR REFER TO SILICON UNIJUNCTION SWITCH (SUS)	8	7	9	8	11	6	

PCT_MBR'S RESP. *YES* - 303X2 DAFSC/CONUS/OS_GRPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

CY-TSK	5	7					9					5				
		ALL	SKL	SKL	US	O's	ALL	SKL	SKL	US	O's	ALL	SKL	SKL	US	O's
	SPC	SPC	SPC	SPC	SPC	SPC	01*	01*	01*	01*	01*	02*	02*	02*	02*	02*
H 472 2 POWER SUPPLIES - WORK WITH	70	74	66	67	74	73	70	76	61	75	82	75	70	76	61	75
H 473 2 POWER SUPPLIES - INSPECT	64	74	50	53	50	73	68	76	56	25	80	73	68	76	56	25
H 474 2 POWER SUPPLIES - CLEAN	76	76	76	76	76	76	74	74	53	25	80	73	74	74	53	25
H 475 2 POWER SUPPLIES - ALIGN OR ADJUST	68	76	68	76	68	76	74	74	53	25	80	73	74	74	53	25
H 476 2 POWER SUPPLIES - TROUBLESHOOT TO CIRCUIT LEVEL	65	74	65	74	65	74	74	74	54	33	77	73	74	74	54	33
H 477 2 POWER SUPPLIES - TROUBLESHOOT TO COMPONENTS	65	74	65	74	65	74	71	71	54	25	75	73	74	74	54	25
H 478 2 POWER SUPPLIES - REMOVE OR REPLACE COMPLETE UNIT	69	71	69	71	69	71	71	71	53	25	75	73	74	74	53	25
H 479 2 POWER SUPPLIES - REMOVE OR REPLACE COMPONENTS	65	74	65	74	65	74	73	73	53	25	77	73	74	74	53	25
H 480 2 POWER SUPPLIES - INSPECT OR SERVICE COOLANT LEVELS	49	54	49	54	49	54	49	49	44	50	66	51	49	54	44	50
H 481 2 POWER SUPPLIES - WORK WITH HALF-WAVE RECTIFIERS	64	68	64	68	64	68	68	68	58	67	75	67	68	68	58	67
H 482 2 POWER SUPPLIES - RECTIFIERS - WORK WITH FULL WAVE OTHER THAN BRIDGE	65	68	65	68	65	68	68	68	62	75	72	68	68	68	62	75
H 483 2 POWER SUPPLIES - RECTIFIERS - WORK WITH BRIDGE	67	73	63	67	71	70	67	62	54	58	66	62	67	73	62	58
H 484 2 POWER SUPPLIES - RECTIFIERS - WORK WITH THREE PHASE	70	73	67	75	75	72	70	73	67	75	75	72	70	73	67	75
H 485 2 POWER SUPPLIES - RECTIFIERS - USE OR REFER TO INPUT VOLTAGE	60	61	58	58	60	60	61	61	57	50	69	60	60	61	57	50
H 486 2 POWER SUPPLIES - RECTIFIERS - USE OR REFER TO INPUT FREQUENCY	67	70	63	75	74	69	67	70	63	75	74	69	69	70	63	75
H 487 2 POWER SUPPLIES - RECTIFIERS - USE OR REFER TO PEAK OUTPUT VOLTAGE	66	70	61	75	69	70	66	62	58	66	70	69	70	66	62	70
H 488 2 POWER SUPPLIES - RECTIFIERS - USE CP REFER TO AVERAGE OUTPUT VOLTAGE	67	70	63	75	74	69	67	70	63	75	74	69	69	70	63	75
H 489 2 POWER SUPPLIES - RECTIFIERS - USE OR REFER TO RIPPLE AMPLITUDE	67	70	64	67	72	70	67	61	57	50	69	60	60	61	57	50
H 490 2 POWER SUPPLIES - RECTIFIERS - USE OR REFER TO RIPPLE FREQUENCY	66	70	60	58	69	69	66	61	57	50	69	60	60	61	57	50
H 491 2 POWER SUPPLIES - RECTIFIERS - USE OR REFER TO PEAK REVERSE (INVERSE) VOLTAGE	48	50	45	58	55	48	48	50	45	58	55	48	48	50	45	58
H 492 2 POWER SUPPLIES - RECTIFIERS - USE OR REFER TO SHAPE OF OUTPUT WAVEFORMS	58	60	56	75	66	58	58	60	56	75	66	58	58	60	56	75
H 493 2 POWER SUPPLIES - RECTIFIERS - USE OR REFER TO EFFECTIVE OUTPUT VOLTAGE	66	68	63	67	71	67	66	68	63	67	71	67	67	68	63	67
H 494 2 POWER SUPPLIES - FILTERS - WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE FILTERS	63	65	62	67	68	65	63	65	53	59	67	55	52	63	65	62
H 495 2 POWER SUPPLIES - FILTERS - WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE FILTERS	65	65	62	67	68	65	65	65	53	59	67	55	52	65	65	62
H 496 2 POWER SUPPLIES - FILTERS - WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE INPUT L-TYPE FILTERS	65	65	62	67	68	65	65	65	53	59	67	55	52	65	65	62
H 497 2 POWER SUPPLIES - FILTERS - WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE INPUT L-TYPE FILTERS	64	59	59	67	54	59	64	59	53	59	67	55	52	64	59	67
H 498 2 POWER SUPPLIES - FILTERS - WORK WITH CIRCUITS WHICH EMPLOYS LC PI-TYPE FILTERS	62	56	56	67	51	56	62	56	51	56	67	51	45	51	56	67
H 499 2 POWER SUPPLIES - FILTERS - WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE FILTERS	60	56	56	67	52	44	60	56	51	56	67	52	44	51	56	67
H 500 2 POWER SUPPLIES - FILTERS - HAVE THE OPTION OF REPLACING ONE TYPE OF FILTER WITH A DIFFERENT TYPE	62	51	51	51	51	51	62	51	51	51	51	51	51	51	51	51
H 501 2 POWER SUPPLIES - WORK WITH REGULATOR CIRCUITS	67	63	63	67	69	70	67	63	63	67	69	70	70	67	63	67

TASK GROUP SUMMARY

PCT MBR. RESP *YES* - 303X? DAFSC/CONUS/OS GRPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMINGOCCUPATIONAL ANALYSIS PROGRAM
USAFOMC (ATC) RANDOLPH AFB TX

	DYSK	S						5					
		ALL	SKL	SKL	US	0's	SPC	SPC	SPC	SPC	SPC	SPC	SPC
		014	C16	017	022	025	026						
(1 537 1 MULTIVIBRATORS - TROUBLESHOOT TO CIRCUIT	52	56	47	33	57	56						
(1 538 1 MULTIVIBRATORS - TROUBLESHOOT TO CIRCUIT COMPONENTS	50	54	45	33	54	55						
(1 539 1 MULTIVIBRATORS - REMOVE OR REPLACE COMPLETE CIRCUITS	46	50	42	25	55	48						
(1 540 1 MULTIVIBRATORS - REMOVE OR REPLACE CIRCUIT COMPONENTS	49	54	43	25	55	54						
(1 541 1 MULTIVIBRATORS - WORK WITH MULTIVIBRATORS WHICH CONTAIN LC TANK CIRCUITS	41	40	41	58	40	41						
(1 542 1 MULTIVIBRATORS - WORK WITH MULTIVIBRATORS WHICH CONTAIN RC NETWORKS (F00)	47	44	50	58	40	46						
(1 543 1 MULTIVIBRATORS - WORK WITH MULTIVIBRATORS WITH CRYSTAL	42	42	43	58	42	43						
(1 544 1 MULTIVIBRATORS - FREQUENCY DETERMINING DEVICES (F00)	15	18	12	25	29	16						
(1 545 1 MULTIVIBRATORS - WORK WITH ASTABLE (FREE RUNNING)	52	54	50	58	54	54						
(1 546 1 MULTIVIBRATORS - WORK WITH MONOSTABLE (ONE SHOT)	57	58	56	67	62	56						
(1 547 1 MULTIVIBRATORS - WORK WITH BISTABLE (FLIP FLOP)	57	58	55	67	62	57						
(1 548 2 LIMITERS - CLAMPERS - WORK WITH SERIES DIODE LIMITERS	55	60	49	58	63	59	LIMITERS AND CLAMPERS					
(1 549 2 LIMITERS - CLAMPERS - WORK WITH SHUNT DIODE LIMITERS	49	49	49	50	55	47						
(1 550 2 LIMITERS - CLAMPERS - WORK WITH LIMITERS WITH BIAS	53	55	50	58	62	53						
(1 551 2 LIMITERS - CLAMPERS - WORK WITH ZENER DIODE LIMITERS	46	47	42	51	48							
(1 552 2 LIMITERS - CLAMPERS - WORK WITH TRANSISTOR LIMITERS	50	51	48	52	62	48						
(1 553 2 LIMITERS - CLAMPERS - WORK WITH TRIODE LIMITERS	38	41	35	50	62	35						
(1 554 2 LIMITERS - CLAMPERS - WORK WITH BASIC DIODE CLAMPING	33	37	28	33	34	38						
(1 555 2 LIMITERS - CLAMPERS - WORK WITH BASIC DIODE CLAMPING CIRCUITS	50	51	49	58	57	49						
(1 556 2 LIMITERS - CLAMPERS - WORK WITH BIAS DIODE CLAMPING CIRCUITS	43	45	40	50	49	44						
(1 557 3 ELECTRON TUBES - CLAMPERS - WORK WITH DC RESISTORS (DCR) ON EQUIPMENT WHICH CONTAINS	18	36	47	50	46	34	ELECTRON TUBES					
(1 558 3 ELECTRON TUBES - CHECK CONDITION	59	63	53	67	67	67						
(1 559 3 ELECTRON TUBES - USE TUBE TESTERS TO CHECK	55	62	46	50	46	67						
(1 560 3 ELECTRON TUBES - USE MULTIMETERS TO CHECK	55	61	48	50	40	58						
(1 561 3 ELECTRON TUBES - USE SCOPES TO CHECK	44	47	40	33	31	52						
(1 562 3 ELECTRON TUBES - USE SUBSTITUTION TO CHECK	50	54	49	33	43	57						
(1 563 3 ELECTRON TUBES - USE OR REFER TO CUTOFF	55	61	48	50	43	67						
(1 564 3 ELECTRON TUBES - USE OR REFER TO PEAK INVERSE VOLTAGE RATING	42	46	38	50	35	49						
(1 565 3 ELECTRON TUBES - USE OR REFER TO PEAK CURRENT RATING	21	24	18	25	25	24						
(1 566 3 ELECTRON TUBES - USE OR REFER TO TRANSIT TIME	23	27	18	25	26	28						
(1 567 3 ELECTRON TUBES - USE OR REFER TO PLATE DISSIPATION	19	22	16	0	22	23						
(1 568 3 ELECTRON TUBES - USE OR REFER TO PLATE DISSIPATION RATING	16	19	13	17	18	20						
(1 569 3 ELECTRON TUBES - USE OR REFER TO SATURATION	46	51	42	50	48	55						
(1 570 3 ELECTRON TUBES - USE OR REFER TO DC PLATE RESISTANCE	29	31	28	25	26	32						
(1 571 3 ELECTRON TUBES - USE OR REFER TO PLATE VOLTAGE	55	59	50	67	42	54						
(1 572 3 ELECTRON TUBES - USE OR REFER TO PLATE CURRENT	46	50	40	56	35	55						
(1 573 3 ELECTRON TUBES - USE OR REFER TO GRID VOLTAGE	54	58	49	67	42	63						
(1 574 3 ELECTRON TUBES - USE OR REFER TO GRID CURRENT	44	48	38	58	34	53						

PCT MRS RESP 'YES' - 303x2 DAFSC/CONUS/QS GRPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMINGOCCUPATIONAL ANALYSIS PROGRAM
USAFCOM (ATC) RANDOLPH AFB TX

TASK	GROUP	SUMMARY	PERCENT MEMBERS PERFORMING						5	7	9	5	5	
			ALL	SKL	SKL	US	0's	SPC	SPC	SPC	SPC	SPC	SPC	
I 575 3	ELECTRON TUBES	USE OR REFER TO CATHODE VOLTAGE	55	52	50	67	43	64						
I 576 3	ELECTRON TUBES	USE OR REFER TO CATHODE CURRENT	46	50	41	58	34	55						
I 577 3	ELECTRON TUBES	USE OR REFER TO FILAMENT VOLTAGE	57	61	51	67	46	67						
I 578 3	ELECTRON TUBES	USE OR REFER TO THE TRIODE AMPLIFICATION FACTOR	22	24	19	8	23	24						
I 579 3	ELECTRON TUBES	USE OR REFER TO MULTIGRID (TETRODE, PENTODE, ETC.) AMPLIFICATION FACTORS	22	26	17	0	26	26						
I 580 3	ELECTRON TUBES	USE OR REFER TO TRANSCONDUCTANCE	12	14	8	0	14	14						
I 581 3	ELECTRON TUBES	USE OR REFER TO THE PARAMETER CALLED AC PLATE RESISTANCE	12	14	9	0	18	13						
I 582 3	ELECTRON TUBES	USE OR REFER TO INTERELECTRODE CAPACITANCE	20	19	21	0	22	19						
I 583 3	ELECTRON TUBES	USE OR REFER TO CHARACTERISTIC CURVES	15	19	10	0	23	18						
I 584 3	ELECTRON TUBES	USE OR REFER TO PLATE VOLTAGE FOR A SPECIFIED BIAS	33	39	25	6	24	43						
I 585 3	ELECTRON TUBES	USE OR REFER TO PLATE CURRENT FOR A SPECIFIED BIAS	29	34	22	8	25	36						
I 586 3	ELECTRON TUBES	USE OR REFER TO BIAS REQUIRED FOR CUTOFF SATURATION	38	43	32	42	31	46						
I 587 3	ELECTRON TUBES	USE OR REFER TO BIAS REQUIRED FOR	37	43	29	42	32	46						
I 588 3	ELECTRON TUBES	USE OR REFER TO TO GAIN	45	49	40	50	35	55						
I 589 3	ELECTRON TUBES	USE OR REFER TO EFFICIENCY	27	32	20	8	26	34						
I 590 3	ELECTRON TUBES	USE MULTIMETERS TO DETERMINE TUBE AMPLIFIER GAIN	35	39	30	42	23	44						
I 591 3	ELECTRON TUBES	USE OSCILLOSCOPES TO DETERMINE TUBE AMPLIFIER GAIN	49	53	43	42	37	57						
I 592 3	ELECTRON TUBES	USE CHARACTERISTICS CURVES TO DETERMINE TUBE AMPLIFIER GAIN	17	21	12	8	20	21						
I 593 3	ELECTRON TUBES	USE OR REFER TO TUBE SOCKET NOTATION	53	56	49	58	40	61						
I 594 3	ELECTRON TUBES	USE OR REFER TO PIN NUMBERING SYSTEMS	56	60	51	58	38	67						
I 595 3	ELECTRON TUBES	USE OR REFER TO TUBE SUBSTITUTION MATERIAL SUCH AS MANUALS OR CHARTS	48	51	49	58	37	55						
I 596 3	ELECTRON TUBES	USE OR REFER TO ELECTRON TUBE DIODES	48	50	46	67	34	56						
J 597 1	ELECTRON TUBE AMPLIFIERS OR CIRCUITS	WORK WITH CIRCUITS - DETERMINE THE CLASS OF OPERATION FOR AMPLIFIERS IN ORDER TO TROUBLESHOOT CIRCUITS	57	63	50	42	45	69	ELECTRON TUBE AMPLIFIERS AND CIRCUITS					
J 598 1	ELECTRON TUBE AMPLIFIERS OR CIRCUITS	DETERMINE THE CLASS OF OPERATION FOR AMPLIFIERS IN ORDER TO TROUBLESHOOT CIRCUITS	19	22	15	8	11	27						
J 599 1	ELECTRON TUBE AMPLIFIERS OR CIRCUITS	DETERMINE THE CLASS OF OPERATION FOR AMPLIFIERS IN ORDER TO TROUBLESHOOT OR REPAIR PARASitic AMPLIFIERS	52	53	57	17	26	37						
J 600 1	ELECTRON TUBE AMPLIFIERS OR CIRCUITS	REPAIR PUSH-PULL AMPLIFIERS	41	41	40	25	20	45						
J 601 1	ELECTRON TUBE AMPLIFIERS OR CIRCUITS	REPAIR COMPOUND-CONNECTED AMPLIFIERS	27	28	26	33	20	32						
J 602 1	ELECTRON TUBE AMPLIFIERS OR CIRCUITS	REPAIR CASCADE-CONNECTED AMPLIFIERS	36	37	40	25	28	41						
J 603 1	ELECTRON TUBE AMPLIFIERS OR CIRCUITS	DON'T KNOW WHICH TYPE OF AMPLIFIER WORKED ON	17	23	0	6	27	24						

**OCCUPATIONAL ANALYSIS PROGRAM
USAF O&C (ATC) RANDOLPH AF B JX**

PERCENT MEMBERS PERFORMING	TASK GROUP SUMMARY
0	J 604 2 SPECIAL PURPOSE ELECTRON TUBES - WORK WITH GAS TUBES (HOT CATHODE OR COLD CATHODE)
0	J 605 2 SPECIAL PURPOSE ELECTRON TUBES - WORK WITH CATHODE-RAY TUBES (CRTS)
0	J 606 2 SPECIAL PURPOSE ELECTRON TUBES - WORK WITH BEAM POWER TUBES
0	J 607 2 SPECIAL PURPOSE ELECTRON TUBES - WORK WITH THYRATRONS
0	J 608 2 SPECIAL PURPOSE ELECTRON TUBES - (CRT) - USE OR REFER TO THE PRINCIPLES OF OPERATION OF ELECTRON GUNS
0	J 609 2 SPECIAL PURPOSE ELECTRON TUBES - (CRT) - USE OR REFER TO THE PRINCIPLES OF OPERATION OF ELECTROMAGNETIC DEFLECTION SYSTEMS
0	J 610 2 SPECIAL PURPOSE ELECTRON TUBES - (CRT) - USE OR REFER TO THE PRINCIPLES OF OPERATION OF ELECTROSTATIC DEFLECTION SYSTEMS
0	J 611 2 SPECIAL PURPOSE ELECTRON TUBES - (CRT) - USE OR REFER TO PHOSPHOR SCREENS
0	J 612 2 SPECIAL PURPOSE ELECTRON TUBES - (CRT) - USE OR REFER TO AQUADAG COATINGS
0	J 613 2 SPECIAL PURPOSE ELECTRON TUBES - (CRT) - USE OR REFER TO ELECTRON OPTICS
0	J 614 2 SPECIAL PURPOSE ELECTRON TUBES - (CRT) - USE OR REFER TO PERSISTENCE
0	J 615 2 SPECIAL PURPOSE ELECTRON TUBES - (CRT) - USE OR REFER TO DECAY TIMES
0	J 616 2 SPECIAL PURPOSE ELECTRON TUBES - (CRT) - USE OR REFER TO FLUORESCENCE
0	J 617 2 SPECIAL PURPOSE ELECTRON TUBES - (CRT) - USE OR REFER TO PHOSPHORESCENCE
0	J 618 3 HETERODYNING AND MODULATION-DEMODULATION (MODEMS) - WORK ON TRANSMIT OR RECEIVE SYSTEMS
0	J 619 3 HETERODYNING AND MODULATION-DEMODULATION (MODEMS) - PERFORM TASKS ON FREQUENCY CONVERTERS
0	J 620 3 HETERODYNING AND MODULATION-DEMODULATION (MODEMS) - PERFORM TASKS ON FREQUENCY MIXERS
0	J 621 3 HETERODYNING AND MODULATION-DEMODULATION (MODEMS) - PERFORM TASKS ON MODEMS
0	J 622 3 HETERODYNING AND MODULATION-DEMODULATION (MODEMS) - USE OR REFER TO THE HETERODYNING OF SIGNALS IN WORK WITH TRANSMIT OR RECEIVE SYSTEMS
0	J 623 3 HETERODYNING AND MODULATION-DEMODULATION (MODEMS) - PERFORM TASKS ON REACTANCE MODULATORS
0	J 624 3 HETERODYNING AND MODULATION-DEMODULATION (MODEMS) - PERFORM TASKS ON MODULATED OSCILLATORS
0	K 625 1 AM TRANSMIT OR RECEIVE SYSTEMS - WORK ON SYSTEMS
0	K 626 1 AM TRANSMIT OR RECEIVE SYSTEMS - INSPECT SYSTEMS - CLEAN
0	K 627 1 AM TRANSMIT OR RECEIVE SYSTEMS - CLEAN

PC1 MBRs RESP 'YES'- 303X2 DAFSC/CONUS/OS GRPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMINGOCCUPATIONAL ANALYSIS PROGRAM
USAFCOM (ATC) RANDOLPH AFB TX

	QY-TSK	ALL						ALL					
		SPC											
	K 628 1 AM TRANSMIT OR RECEIVE SYSTEMS - ALIGN OR ADJUST SYSTEMS - TROUBLESHOOT TC SYSTEM	14	15	13	0	17	15	13	14	12	8	15	14
	K 629 1 AM TRANSMIT OR RECEIVE SYSTEMS - TROUBLESHOOT SYSTEMS - TROUBLESHOOT TO COMPONENTS	14	15	12	8	17	15	14	15	12	8	17	15
	K 630 1 AM TRANSMIT OR RECEIVE SYSTEMS - TROUBLESHOOT TO COMPONENTS	14	15	12	8	17	15	14	15	12	8	17	15
	K 631 1 AM TRANSMIT OR RECEIVE SYSTEMS - REMOVE OP REPLACE SYSTEMS	12	13	11	0	14	12	12	13	11	0	14	12
	K 632 1 AM TRANSMIT OR RECEIVE SYSTEMS - REMOVE OP REPLACE COMPONENTS	11	15	11	0	17	15	11	15	11	0	17	15
	K 633 1 AM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON OSCILLATORS/SYNTHESIZERS	13	13	13	17	14	13	13	13	13	17	14	13
	K 634 1 AM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON RF AMPLIFIERS	15	16	14	17	15	16	15	16	14	17	15	16
	K 635 1 AM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON AUDIO AMPLIFIERS	4	3	5	17	3	3	4	3	5	17	3	3
	K 636 1 AM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON POWER AMPLIFIERS	15	16	14	17	17	16	15	16	14	17	17	16
	K 637 1 AM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON LOCAL OSCILLATORS	15	16	13	17	15	16	15	16	13	17	15	16
	K 638 1 AM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON IF AMPLIFIERS	14	15	13	17	17	15	14	15	13	17	17	15
	K 639 1 AM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON DEFECTORS	15	16	13	17	15	16	15	16	13	17	15	16
	K 640 1 AM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON LOCAL FREQUENCY STABILIZATION IN TRANSMITTERS	15	15	14	17	17	15	15	15	14	17	17	15
	K 641 1 AM TRANSMIT OR RECEIVE SYSTEMS - USE OR REFER TO FREQUENCY STABILIZATION IN TRANSMITTERS	11	10	11	25	12	10	11	10	11	25	12	10
	K 642 1 AM TRANSMIT OR RECEIVE SYSTEMS - USE OR REFER TO FREQUENCY STABILIZATION IN TRANSMITTERS	12	13	12	25	12	13	12	13	12	25	12	13
	K 643 1 AM TRANSMIT OR RECEIVE SYSTEMS - USE OR REFER TO SENSITIVITY OF RECEIVERS	15	15	15	25	17	15	15	15	15	25	17	15
	K 644 1 AM TRANSMIT OR RECEIVE SYSTEMS - USE OR REFER TO SELECTIVITY OF RECEIVERS	14	14	13	17	15	14	14	13	17	15	14	14
	K 645 2 FM TRANSMIT OR RECEIVE SYSTEMS - WORK WITH SYSTEMS - INSPECT	21	25	15	17	20	25	21	26	14	25	20	25
	K 646 2 FM TRANSMIT OR RECEIVE SYSTEMS - CLEAN	19	25	12	0	26	26	19	25	11	0	28	26
	K 647 2 FM TRANSMIT OR RECEIVE SYSTEMS - ALIGN	19	25	12	0	26	26	19	25	12	0	28	24
	K 648 2 FM TRANSMIT OR RECEIVE SYSTEMS - TROUBLESHOOT TO SYSTEM ASSESSMENTS	19	25	12	0	26	26	19	25	12	0	28	24
	K 649 2 FM TRANSMIT OR RECEIVE SYSTEMS - TROUBLESHOOT TO SYSTEM COMPONENTS	19	25	12	8	26	26	19	25	12	8	26	24
	K 650 2 FM TRANSMIT OR RECEIVE SYSTEMS - REMOVE OP REPLACE SYSTEMS - REMOVE OP REPLACE	17	22	12	0	25	22	17	22	12	0	26	22
	K 651 2 FM TRANSMIT OR RECEIVE SYSTEMS - REMOVE OP REPLACE	19	25	12	0	26	26	19	25	12	0	26	24
	K 652 2 FM TRANSMIT OR RECEIVE SYSTEMS - REMOVE OP REPLACE	19	25	12	0	26	26	19	25	12	0	26	24
	K 653 2 FM TRANSMIT OR RECEIVE SYSTEMS - PERFORM LINK PERFORMANCE ASSESSMENTS	9	11	5	8	12	11	9	11	5	8	12	11
	K 654 2 FM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON AUDIO AMPLIFIERS	5	6	3	8	5	7	5	6	3	8	5	7
	K 655 2 FM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON FREQUENCY MULTIPLIERS	18	23	12	26	23	23	18	23	12	26	23	23

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

CY-ISK	0's	ALL		SKL		SKL		SKL		US	
		SPC									
K 656 2 FM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON DRIVERS (INTERMEDIATE AMPLIFIERS)	014	016	017	022	022	025	025	026	026	026	026
K 657 2 FM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON POWER AMPLIFIERS	20	25	14	8	26	25	25	8	26	25	25
K 658 2 FM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON RF AMPLIFIERS	20	25	14	8	26	25	25	8	26	25	25
K 659 2 FM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON FREQUENCY CONVERTERS	17	21	12	8	23	21	21	11	6	23	21
K 660 2 FM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON IF AMPLIFIERS	20	25	13	8	28	25	13	8	28	25	25
K 661 2 FM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON LIMITERS	19	25	12	8	20	24	19	25	12	8	24
K 662 2 FM TRANSMIT OR RECEIVER SYSTEMS - PERFORM TASKS ON FREQUENCY DISCRIMINATORS	17	21	11	6	23	22	17	21	11	6	23
K 663 2 FM TRANSMIT OR RECEIVE SYSTEMS - TRACE SIGNALS OR CURRENT PATHS THROUGH SCHEMATIC DIAGRAMS OF FM TRANSMITTERS	19	24	13	25	26	24	19	24	13	25	24
K 664 2 FM TRANSMIT OR RECEIVE SYSTEMS - TRACE SIGNALS OR CURRENT PATHS THROUGH SCHEMATIC DIAGRAMS OF FM RECEIVERS	20	25	14	25	26	25	20	25	14	25	25
K 665 2 FM TRANSMIT OR RECEIVE SYSTEMS - TRACE SIGNALS OR CURRENT PATHS THROUGH SCHEMATIC DIAGRAMS OF FM TRANSMITTERS	12	14	10	25	18	14	12	14	10	25	18
K 666 2 FM TRANSMIT OR RECEIVE SYSTEMS - PLOT RECEIVE SIGNAL LEVEL CURVES (ASRL)	6	6	5	8	8	6	6	6	5	8	6
K 667 3 NUMBERING SYSTEMS - CONVERT DECIMAL (BASE 10) NUMBERS TO OCTAL (BASE 8) NUMBERS	19	17	22	8	26	14	19	17	22	8	26
K 668 3 NUMBERING SYSTEMS - CONVERT DECIMAL NUMBERS TO BINARY (BASE 2) NUMBERS	28	25	33	25	42	20	28	25	33	25	42
K 669 3 NUMBERING SYSTEMS - CONVERT DECIMAL NUMBERS HEXADECIMAL (BASE 16) NUMBERS	8	7	9	8	12	5	8	7	9	8	12
K 670 3 NUMBERING SYSTEMS - CONVERT OCTAL NUMBERS TO DECIMAL NUMBERS	19	17	22	8	26	13	19	17	22	8	26
K 671 3 NUMBERING SYSTEMS - CONVERT OCTAL NUMBERS TO BINARY NUMBERS	19	17	22	8	26	13	19	17	22	8	26
K 672 3 NUMBERING SYSTEMS - CONVERT OCTAL NUMBERS TO HEXADECIMAL NUMBERS	8	7	8	8	14	5	8	7	8	8	14
K 673 3 NUMBERING SYSTEMS - CONVERT BINARY NUMBERS TO DECIMAL NUMBERS	28	25	31	25	42	20	28	25	31	25	42
K 674 3 NUMBERING SYSTEMS - CONVERT BINARY NUMBERS TO OCTAL NUMBERS	18	16	21	6	26	13	18	16	21	6	26
K 675 3 NUMBERING SYSTEMS - CONVERT BINARY NUMBERS TO HEXADECIMAL NUMBERS	7	7	6	6	11	5	7	7	6	6	11
K 676 3 NUMBERING SYSTEMS - CONVERT HEXADECIMAL NUMBERS TO DECIMAL NUMBERS	8	6	10	6	10	5	8	6	10	6	10
K 677 3 NUMBERING SYSTEMS - CONVERT HEXADECIMAL NUMBERS TO OCTAL NUMBERS	3	7	9	3	7	9	3	7	9	3	7
K 678 3 NUMBERING SYSTEMS - CONVERT HEXADECIMAL NUMBERS TO BINARY NUMBERS	7	6	8	8	11	5	7	6	8	8	11
K 679 3 NUMBERING SYSTEMS - ADD BINARY NUMBERS	29	32	25	45	45	25	29	32	25	45	45

PERIODS RESP 'YES' - 3032 DAFSC/COMUS/OS GRPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

OCCUPATIONAL ANALYSIS PROGRAM
 USAFOMC (ATC) RANDOLPH AFB TX

PERIOD	TASK	GROUP	PERCENT	MEMBERS PERFORMING						
				SKL	SKL	SKL	SPC	SPC	SPC	SPC
K	680	3	NUMBERING SYSTEMS - SUBTRACT BINARY NUMBERS USING THE END-AROUND-CARRY METHOD	23	22	25	17	43	15	5
K	681	3	NUMBERING SYSTEMS - SUBTRACT BINARY NUMBERS USING THE DIRECT SUBTRACTION METHOD	24	23	26	17	42	17	5
K	682	3	NUMBERING SYSTEMS - ADD OCTAL NUMBERS	17	16	18	8	28	12	0's
K	683	3	NUMBERING SYSTEMS - ADD HEXADECIMAL NUMBERS	7	7	7	8	12	5	0's
K	684	3	NUMBERING SYSTEMS - SUBTRACT HEXADECIMAL NUMBERS	8	7	8	8	14	5	0's
K	685	3	NUMBERING SYSTEMS - DIVIDE BINARY NUMBERS	18	17	19	17	34	12	0's
K	686	3	NUMBERING SYSTEMS - MULTIPLY BINARY NUMBERS	19	18	21	17	35	13	0's
K	687	3	NUMBERING SYSTEMS - USE OR REFER TO BINARY CODED IDENTICAL (BCD)	26	23	30	25	45	16	0's
K	688	3	NUMBERING SYSTEMS - USE OR REFER TO GRAY CODE	20	19	20	25	37	13	0's
K	689	3	NUMBERING SYSTEMS - USE OR REFER TO ICAO CODE	3	3	4	17	8	1	0's
K	690	3	NUMBERING SYSTEMS - USE OR REFER TO EXCESS-3 CODE	8	6	10	17	11	4	0's
L	691	1	LOGIC FUNCTIONS - PERFORM TASKS RELATING TO SYMBOLS OR GATES	30	30	30	33	58	22	LOGIC FUNCTIONS
L	692	1	LOGIC FUNCTIONS - CONSTRUCT TRUTH TABLES FOR AND LOGIC SYMBOLS OR GATES	20	19	21	25	38	13	LOGIC FUNCTIONS
L	693	1	LOGIC FUNCTIONS - CONSTRUCT TRUTH TABLES FOR (OR) LOGIC SYMBOLS OR GATES	20	19	21	25	38	13	LOGIC FUNCTIONS
L	694	1	LOGIC FUNCTIONS - CONSTRUCT TRUTH TABLES FOR (AND) OR (OR) LOGIC SYMBOLS WITH STATE INDICATORS	20	18	21	25	37	13	LOGIC FUNCTIONS
L	695	1	LOGIC FUNCTIONS - CONSTRUCT TRUTH TABLES FOR EXCLUSIVE (OR) LOGIC SYMBOLS OR GATES	20	18	21	25	38	13	LOGIC FUNCTIONS
L	696	1	LOGIC FUNCTIONS - USE OR REFER TO TRUTH TABLES FOR (AND) LOGIC SYMBOLS OR GATES	25	24	26	33	49	17	LOGIC FUNCTIONS
L	697	1	LOGIC FUNCTIONS - USE OR REFER TO TRUTH TABLES FOR LOGIC SYMBOLS OR GATES	25	25	26	33	51	17	LOGIC FUNCTIONS
L	698	1	LOGIC FUNCTIONS - USE OR REFER TO TRUTH TABLES FOR (AND) OR (OR) LOGIC SYMBOLS WITH STATE INDICATORS	24	24	25	33	48	17	LOGIC FUNCTIONS
L	699	1	LOGIC FUNCTIONS - USE OR REFER TO TRUTH TABLES FOR (EXCLUSIVE OR) LOGIC SYMBOLS	25	24	26	33	49	16	LOGIC FUNCTIONS
L	700	1	LOGIC FUNCTIONS - USE OR REFER TO LOGIC SYMBOLS FOR (AND) GATES	29	28	30	33	55	20	LOGIC FUNCTIONS
L	701	1	LOGIC FUNCTIONS - USE OR REFER TO LOGIC SYMBOLS FOR (OR) GATES	29	28	30	33	55	20	LOGIC FUNCTIONS
L	702	1	LOGIC FUNCTIONS - USE OR REFER TO LOGIC SYMBOLS FOR (NAND) OR (INOR) GATES	29	28	30	33	57	20	LOGIC FUNCTIONS
L	703	1	LOGIC FUNCTIONS - USE OR REFER TO LOGIC SYMBOLS FOR (EXCLUSIVE OR) GATES	28	28	30	33	57	19	LOGIC FUNCTIONS
L	704	1	LOGIC FUNCTIONS - USE OR REFER TO LOGIC SYMBOLS FOR INHIBITED (AND) GATES	27	25	29	33	49	18	LOGIC FUNCTIONS
L	705	1	"B" BARS LOGIC FUNCTIONS - USE OR REFER TO LOGIC SYMBOLS FOR "B" BARS	6	7	4	8	18	4	LOGIC FUNCTIONS
L	706	1	"M" BARS LOGIC FUNCTIONS - USE OR REFER TO LOGIC SYMBOLS FOR "M" BARS	6	7	4	8	18	4	LOGIC FUNCTIONS
L	707	1	LOGIC FUNCTIONS - USE OR REFER TO LOGIC SYMBOLS FOR COMBINERS	11	10	12	6	18	6	LOGIC FUNCTIONS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

PCT M083 RESP YES :- 383X2 DAFSS/CONNS/OS GRPS

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

Task Group Summary Percent Members Redecoming

TASK GROUP	RESP "YES" - 3Q3X2 DAFSC/CONUS/OS GAPS	PERCENT MEMBERS PERFORMING	TASK GROUP SUMMARY									
			PY-1SM					PY-1SM				
			ALL	SKL	SKL	ALL	SKL	SKL	ALL	SKL	SKL	
			SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	0's
			Q14	Q14	C17	Q22	Q22	Q25	Q25	Q25	Q25	
M 767 1	SAWTOOTH WAVEFORMS - USE OR REFER TO PHYSICAL LENGTH OF	57	60	52	50	63	59	5	9	5	5	
M 768 1	SAWTOOTH CIRCUITS - USE OR REFER TO LINEAR SLOPE OF	61	63	58	58	68	62					
M 769 1	SAWTOOTH WAVEFORMS - USE OR REFER TO GATE LENGTH OF SAWTOOTH	63	66	59	58	71	65					
M 770 2	SIGNAL GENERATORS - USE	69	73	63	50	75	73					
M 771 2	SIGNAL GENERATORS - PERFORM OPERATIONAL CHECKS WHILE	67	72	61	50	74	72					
M 772 2	USING											
M 773 2	SIGNAL GENERATORS - PERFORM PERIODIC MAINTENANCE SUCH AS	52	57	45	25	60	56					
M 774 2	ADJUSTING, ALIGNING, OR CALIBRATING WHILE USING											
M 775 2	SIGNAL GENERATORS - TROUBLESHOOT TO AN ASSEMBLY OR	47	51	41	25	49	52					
M 776 2	SIGNAL GENERATORS - TROUBLESHOOT WHILE USING											
M 777 2	SIGNAL GENERATORS - TROUBLESHOOT TO THE SMALLEST	41	43	38	25	45	43					
M 778 2	REPLACEABLE COMPONENT WHILE USING											
M 779 2	SIGNAL GENERATORS - USE AUDIO SINE-WAVE GENERATORS	13	11	16	33	17	9					
M 780 2	SIGNAL GENERATORS - USE AUDIO NON-SINUSOIDAL WAVE	21	19	24	33	28	17					
M 781 2	GENERATORS SUCH AS SQUARE WAVE, TRIANGLE, PULSE, OR SPIKE											
M 782 2	SIGNAL GENERATORS - USE RF GENERATORS LESS THAN 1,000 MH	45	45	44	42	51	45					
M 783 2	SIGNAL GENERATORS - USE RF GENERATORS GREATER THAN	54	56	51	50	60	56					
M 784 3	1,000 MH											
M 779 2	SIGNAL GENERATORS - USE WHITE NOISE GENERATORS	7	6	8	0	6	6					
M 780 2	SIGNAL GENERATORS - USE PATTERN GENERATORS	12	14	11	17	23	11					
M 781 2	SIGNAL GENERATORS - USE PSEUDO-RANDOM GENERATORS	7	6	8	0	12	4					
M 782 2	SIGNAL GENERATORS - USE TIME MARK GENERATORS	32	34	29	50	43	32					
M 783 2	SIGNAL GENERATORS - USE OTHER SPECIAL PURPOSE OR	40	43	36	42	45	43					
M 784 3	MOTOR/GENERATORS - USE											
M 785 3	MOTOR/GENERATORS - PERFORM TASK DEALING WITH AC OR DC	62	68	52	67	68	68					
M 786 3	MOTORS - INSPECT											
M 787 3	MOTORS - CLEAN OR LUBRICATE	61	67	52	67	69	67					
M 788 3	MOTORS - OPERATE	56	64	45	25	68	67					
M 789 3	MOTORS - REMOVE OR REPLACE COMPLETE	54	60	46	33	68	58					
M 790 3	MOTORS - REMOVE OR REPLACE PARTS	57	65	46	33	69	65					
M 791 3	MOTORS - TROUBLESHOOT AS FAR AS CHECKING WIRES	44	47	39	17	51	46					
M 792 3	CONNECTIONS OF	56	65	45	42	62	65					
M 793 3	MOTORS - TROUBLESHOOT DOWN TO COMPONENT PARTS OF	36	39	32	8	48	38					
M 794 3	MOTORS - PERFORM ANY TASKS ON FIELD COILS	25	26	20	25	34	28					
M 795 3	MOTORS - PERFORM ANY TASKS ON ARMATURES	22	25	17	8	31	24					
M 796 3	MOTORS - PERFORM ANY TASKS ON BRUSHES	27	31	21	25	37	31					
M 797 3	MOTORS - PERFORM ANY TASKS ON SLIP RINGS	43	47	38	33	42	50					
M 798 3	MOTORS - PERFORM ANY TASKS ON COMMUTATORS	79	41	35	25	37	44					
M 799 3	MOTORS - PERFORM ANY TASKS ON POLE PIECES	32	31	26	35	34	34					
M 800 3	MOTORS - DETERMINE OR MEASURE FORCE OR TORQUE	17	19	14	4	28	17					
M 801 3	MOTORS - DETERMINE OR MEASURE THE DIRECTION OF THE	17	16	4	4	17	15					
M 802 3	MECHANICAL FORCE OR TORQUE	17	16	4	4	17	15					

PCI MORE RESP YES :- 303x2 D
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

PCT MEMRS RESP. *YES*- 303X2_NAFSC/CONVS/OS GRPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMINGOCCUPATIONAL ANALYSIS PROGRAM
USAFOMC (AIC) RANDOLPH AFB TX

DY-TSK

N 837 2 MAGNETIC AMPLIFIERS/SATURABLE REACTORS - USE OR REFER TO
SATURABLE REACTOR SCHEMATIC SYMBOLSN 838 3 WAVESHAPING CIRCUITS - WORK WITH
INTERVALS (RISE TIME AND FALL TIME)
N 840 3 WAVESHAPING CIRCUITS - USE OR REFER TO PULSE WIDTH (PW)
N 841 3 WAVESHAPING CIRCUITS - USE OR REFER TO PULSE RECURRENCE
TIME (PRT)N 842 3 WAVESHAPING CIRCUITS - USE OR REFER TO PULSE RECURRENCE
FREQUENCY (PRF)N 843 3 WAVESHAPING CIRCUITS - USE OR REFER TO DIFFERENTIATING
CIRCUITSN 844 3 WAVESHAPING CIRCUITS - USE OR REFER TO INTEGRATING
CIRCUITSN 845 3 WAVESHAPING CIRCUITS - USE OR REFER TO THE CLASSIFICATION
OF TIME CONSTANTS (TC) AS LONG, MEDIUM, OR SHORTN 846 3 WAVESHAPING CIRCUITS - DETERMINE WHETHER AN LP OR RC
CIRCUIT IS DIFFERENTIATING OR INTEGRATING BASED ON THE
TIME CONSTANT AND OUTPUT CONFIGURATIONN 847 3 WAVESHAPING CIRCUITS - WORK WITH SQUARE WAVE GENERATORS
N 848 3 WAVESHAPING CIRCUITS - WORK WITH RECTANGER WAVE
GENERATORSN 849 3 WAVESHAPING CIRCUITS - WORK WITH TRIANGULAR (SANTOOTH)
WAVE GENERATORSN 850 3 WAVESHAPING CIRCUITS - WORK WITH RAMP (TRAPEZOICAL)
GENERATORSN 851 3 WAVESHAPING CIRCUITS - WORK WITH FUNCTION GENERATORS
0 852 1 SINGLE OR INDEPENDENT SIDEBOARD SYSTEMS - WORK ON
0 853 1 SINGLE OR INDEPENDENT SIDEBOARD SYSTEMS - INSPECT TRANSMIT
0 854 1 SINGLE OR INDEPENDENT SIDEBOARD SYSTEMS - CLEAN TRANSMIT
0 855 1 SINGLE OR INDEPENDENT SIDEBOARD SYSTEMS - ALIGN TRANSMIT OR
RECEIVE SYSTEMS0 856 1 SINGLE OR INDEPENDENT SIDEBOARD SYSTEMS - TROUBLESHOOT TO
TRANSMIT OR RECEIVE SYSTEMS0 857 1 SINGLE OR INDEPENDENT SIDEBOARD SYSTEMS - TROUBLESHOOT TO
TRANSMIT OR RECEIVE COMPONENTS0 858 1 SINGLE INDEPENDENT SIDEBOARD SYSTEMS - REMOVE OR REPLACE
TRANSMIT OR RECEIVE SYSTEMS0 859 1 SINGLE OR INDEPENDENT SIDEBOARD SYSTEMS - REMOVE OR
REPLACE TRANSMIT OR RECEIVE COMPONENTS0 860 1 SINGLE OR INDEPENDENT SIDEBOARD SYSTEMS - PERFORM TASKS
ON AUDIO AMPLIFIERS0 861 1 SINGLE OR INDEPENDENT SIDEBOARD SYSTEMS - PERFORM TASKS
ON BALANCED MODULATORS0 862 1 SINGLE OR INDEPENDENT SIDEBOARD SYSTEMS - PERFORM TASKS
ON CARRIER OSCILLATORS

	ALL	SKL		SKL		SKL		SPC		SPC		SPC		SPC	
		SPC													
N 837 2 MAGNETIC AMPLIFIERS/SATURABLE REACTORS - USE OR REFER TO SATURABLE REACTOR SCHEMATIC SYMBOLS	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
N 838 3 WAVESHAPING CIRCUITS - WORK WITH INTERVALS (RISE TIME AND FALL TIME)	64	68	59	67	72	67	72	67	72	67	72	67	72	67	72
N 840 3 WAVESHAPING CIRCUITS - USE OR REFER TO PULSE WIDTH (PW)	58	61	55	58	63	61	63	61	63	61	63	61	63	61	63
N 841 3 WAVESHAPING CIRCUITS - USE OR REFER TO PULSE RECURRENCE TIME (PRT)	64	67	60	67	72	67	72	67	72	67	72	67	72	67	72
N 842 3 WAVESHAPING CIRCUITS - USE OR REFER TO PULSE RECURRENCE FREQUENCY (PRF)	64	67	59	67	74	66	74	66	74	66	74	66	74	66	74
N 843 3 WAVESHAPING CIRCUITS - USE OR REFER TO DIFFERENTIATING CIRCUITS	58	61	54	67	69	59	67	69	59	67	69	59	67	69	59
N 844 3 WAVESHAPING CIRCUITS - USE OR REFER TO INTEGRATING CIRCUITS	52	54	50	67	68	50	67	68	50	67	68	50	67	68	50
N 845 3 WAVESHAPING CIRCUITS - USE OR REFER TO THE CLASSIFICATION OF TIME CONSTANTS (TC) AS LONG, MEDIUM, OR SHORT	46	49	43	42	54	49	49	49	43	47	50	49	49	49	49
N 846 3 WAVESHAPING CIRCUITS - DETERMINE WHETHER AN LP OR RC CIRCUIT IS DIFFERENTIATING OR INTEGRATING BASED ON THE TIME CONSTANT AND OUTPUT CONFIGURATION	32	31	33	42	35	30	32	31	31	32	35	30	32	31	30
N 847 3 WAVESHAPING CIRCUITS - WORK WITH SQUARE WAVE GENERATORS	40	43	37	50	60	38	50	60	38	50	60	38	50	60	38
N 848 3 WAVESHAPING CIRCUITS - WORK WITH RECTANGER WAVE GENERATORS	28	27	28	50	42	24	28	50	42	24	28	50	42	24	28
N 849 3 WAVESHAPING CIRCUITS - WORK WITH TRIANGULAR (SANTOOTH) WAVE GENERATORS	35	36	33	50	54	31	35	50	54	31	35	50	54	31	35
N 850 3 WAVESHAPING CIRCUITS - WORK WITH RAMP (TRAPEZOICAL) GENERATORS	23	22	25	33	40	18	23	22	25	33	40	18	23	22	18
N 851 3 WAVESHAPING CIRCUITS - WORK WITH FUNCTION GENERATORS 0 852 1 SINGLE OR INDEPENDENT SIDEBOARD SYSTEMS - WORK ON 0 853 1 SINGLE OR INDEPENDENT SIDEBOARD SYSTEMS - INSPECT TRANSMIT 0 854 1 SINGLE OR INDEPENDENT SIDEBOARD SYSTEMS - CLEAN TRANSMIT 0 855 1 SINGLE OR INDEPENDENT SIDEBOARD SYSTEMS - ALIGN TRANSMIT OR RECEIVE SYSTEMS	25	22	22	42	48	22	25	22	42	48	22	25	22	42	48
0 856 1 SINGLE OR INDEPENDENT SIDEBOARD SYSTEMS - TROUBLESHOOT TO TRANSMIT OR RECEIVE SYSTEMS	10	13	5	0	20	11	10	13	5	0	20	11	10	13	5
0 857 1 SINGLE OR INDEPENDENT SIDEBOARD SYSTEMS - TROUBLESHOOT TO TRANSMIT OR RECEIVE COMPONENTS	8	10	5	0	15	9	10	5	0	15	9	10	5	0	15
0 858 1 SINGLE INDEPENDENT SIDEBOARD SYSTEMS - REMOVE OR REPLACE TRANSMIT OR RECEIVE SYSTEMS	7	9	4	0	15	7	7	9	4	0	15	7	7	9	4
0 859 1 SINGLE OR INDEPENDENT SIDEBOARD SYSTEMS - REMOVE OR REPLACE TRANSMIT OR RECEIVE SYSTEMS	7	9	4	0	15	8	7	9	4	0	15	8	7	9	4
0 860 1 SINGLE OR INDEPENDENT SIDEBOARD SYSTEMS - PERFORM TASKS ON AUDIO AMPLIFIERS	3	3	3	0	15	2	3	3	3	0	15	2	3	3	2
0 861 1 SINGLE OR INDEPENDENT SIDEBOARD SYSTEMS - PERFORM TASKS ON BALANCED MODULATORS	5	6	3	0	15	4	5	6	3	0	15	4	5	6	4
0 862 1 SINGLE OR INDEPENDENT SIDEBOARD SYSTEMS - PERFORM TASKS ON CARRIER OSCILLATORS	5	6	3	0	15	4	5	6	3	0	15	4	5	6	4

WAVESHAPING CIRCUITS

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PCT MARS RESP YES - 303X2 DAFSC/CONUS/OS GRPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

TASK	GROUP	SUMMARY	PERCENT MEMBERS PERFORMING						AII	SK1	SK2	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	
			SPC	SPC	SPC	SPC	SPC	SPC														
0 863 1	SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM TASKS ON LC FILTERS	04-TSK	014	016	017	022	025	026	5	7	2	3	14	5	5	7	9	5	5	5	0	0
0 864 1	SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM TASKS ON CRYSTAL FILTERS								5	7	2	3	14	5	5	7	9	5	5	5	0	0
0 865 1	SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM TASKS ON MECHANICAL FILTERS								4	6	2	0	21	4	4	6	8	4	4	4	0	0
0 866 1	SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM TASKS ON OSCILLATORS								6	4	3	0	14	6	6	8	10	6	6	6	0	0
0 867 1	SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM TASKS ON MIXERS								7	10	5	3	17	8	7	10	12	8	8	8	0	0
0 868 1	SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM TASKS ON DRIVERS								7	10	1	0	17	6	7	10	12	6	6	6	0	0
0 869 1	SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM TASKS ON POWER AMPLIFIERS								7	10	3	0	17	6	7	10	12	6	6	6	0	0
0 870 1	SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM TASKS ON RF AMPLIFIERS								7	9	3	0	15	8	7	9	11	7	7	7	0	0
0 871 1	SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM TASKS ON FREQUENCY CONVERTERS								5	7	3	0	14	5	5	7	9	5	5	5	0	0
0 872 1	SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM TASKS ON IF AMPLIFIERS								7	10	3	3	17	8	7	10	12	8	8	8	0	0
0 873 1	SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM TASKS ON DEMODULATORS								5	6	3	0	12	5	5	7	9	5	5	5	0	0
0 874 1	SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - USE OR REFER TO SELECTIVE FAADING								2	2	1	0	5	2	2	2	4	2	2	2	0	0
0 875 1	SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - USE OR REFER TO PEAK POWER								6	8	4	0	15	7	6	8	10	6	6	6	0	0
0 876 1	SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - USE OR REFER TO FREQUENCY STABILITY								6	8	4	0	15	7	6	8	10	6	6	6	0	0
0 877 1	SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - USE OR REFER TO RESPONSE CURVES FOR BANDWIDTH FILTERS								5	7	3	0	14	5	5	7	9	5	5	5	0	0
0 878 1	SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - CALCULATE PEAK POWER OR EFFECTIVE POWER OF TRANSMITTERS								5	7	2	0	12	6	5	7	9	5	5	5	0	0
0 879 1	SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - TRACE SIGNALS OR CURRENT PATHS THROUGH TRANSMITTER SCHEMATIC DIAGRAMS								5	7	2	0	14	6	5	7	9	5	5	5	0	0
0 880 1	SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - TRACE SIGNALS OR CURRENT PATHS THROUGH RECEIVER SCHEMATIC DIAGRAMS								5	7	2	0	14	5	5	7	9	5	5	5	0	0
0 881 1	SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM AERONAUTIC STATION ASSESSMENT PROGRAMS (ASAP)								1	2	0	0	6	1	1	2	4	1	1	1	0	0
0 892 2	PULSE MODULATION SYSTEMS - WORK ON PULSE MODULATION SYSTEMS - INSPECT								54	58	50	75	63	56	56	58	50	75	63	56	56	PULSE MODULATION SYSTEMS
0 893 2	PULSE MODULATION SYSTEMS - CLEAN								53	57	47	75	64	55	55	53	57	47	75	64	55	PULSE MODULATION SYSTEMS
0 894 2	PULSE MODULATION SYSTEMS - ALIGN								47	54	38	53	52	52	52	47	54	38	53	52	52	PULSE MODULATION SYSTEMS
0 895 2	PULSE MODULATION SYSTEMS - TROUBLESHOOT SYSTEM								49	55	40	53	62	53	53	49	55	40	53	62	53	PULSE MODULATION SYSTEMS
0 896 2	PULSE MODULATION SYSTEMS - TROUBLESHOOT COMPONENTS								48	54	45	53	60	53	53	48	54	45	53	60	53	PULSE MODULATION SYSTEMS
0 897 2	PULSE MODULATION SYSTEMS - REMOVE OR REPLACE								49	55	41	53	62	53	53	49	55	41	53	62	53	PULSE MODULATION SYSTEMS
0 898 2	PULSE MODULATION SYSTEMS - REMOVE OR REPLACE COMPONENTS								44	50	36	53	57	57	57	44	50	36	53	57	57	PULSE MODULATION SYSTEMS
0 899 2	PULSE MODULATION SYSTEMS - REMOVE OR REPLACE								48	54	40	53	62	53	53	48	54	40	53	62	53	PULSE MODULATION SYSTEMS
0 900 2	PULSE MODULATION SYSTEMS - WORK ON PULSE-AMPLITUDE MODULATION (PAM)								38	41	35	58	63	61	61	38	41	35	58	63	61	PULSE MODULATION SYSTEMS

PCT. MEMBERS RESP 'YES' - 303X2 DAFSC/CONUS/OS GRPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

TASK	GROUP	SUMMARY	OCCUPATIONAL ANALYSIS PROGRAM											
			USAFORC (ATC) RANDOLPH AFB TX			ALL			SKL			US		
PERCENT	MEMBERS	PERFORMING	5	7	9	5	7	9	SKL	SPC	SPC	SPC	SPC	SPC
		0 891 2 PULSE MODULATION SYSTEMS - WORK ON PULSE-DURATION	29	30	28	50	31	30						0.8
		0 892 2 PULSE MODULATION SYSTEMS - WORK ON PULSE-POSITION	19	22	16	42	29	21						
		0 893 2 PULSE MODULATION SYSTEMS - WORK ON PULSE-CODE MODULATION (PCM)	26	29	21	42	40	26						
		0 894 2 PULSE MODULATION SYSTEMS - WORK ON LINE PULSING MODULATION	12	13	11	25	20	11						
		0 895 2 PULSE MODULATION SYSTEMS - DON'T KNOW TYPE OF MODULATION SYSTEM WORKED ON	13	17	0	0	20	16						
		0 896 2 PULSE MODULATION SYSTEMS - WORK ON TIME DIVISION MULTIPLEXING (TDM)	7	9	4	25	15	8						
		0 897 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON POWER SUPPLIES	51	56	46	42	63	54						
		0 898 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON CHARGING CHOKEs AND CHARGING DIODEs	49	52	44	42	58	50						
		0 899 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON PULSE FORMING NETWORKS	50	54	46	42	58	53						
		0 900 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON TIMERS	43	46	39	42	46	46						
		0 901 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON SWITCHES SUCH AS GAS THYRATRONS	49	53	45	42	54	53						
		0 902 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON PULSE TRANSFORMERS	50	54	44	42	55	54						
		0 903 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON TRANSMITTER TUBES	51	54	46	42	58	54						
		0 904 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON RF AMPLIFIERS	49	53	44	42	60	51						
		0 905 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON FREQUENCY CONVERTERS	39	43	34	33	49	41						
		0 906 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON IF AMPLIFIERS	49	54	43	42	62	53						
		0 907 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON DETECTORS	49	53	43	42	60	52						
		0 908 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON VIDEO AMPLIFIERS	49	53	43	42	62	51						
		0 909 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON POWER VIDEO AMPLIFIERS	35	39	30	17	43	38						
		0 910 2 PULSE MODULATION SYSTEMS - USE OR REFER TO PULSE RECURRENCE FREQUENCY (PRF)	54	57	50	75	63	55						
		0 911 2 PULSE MODULATION SYSTEMS - USE OR REFER TO PULSE RECURRENCE TIME (PRT)	54	57	50	75	63	55						
		0 912 2 PULSE MODULATION SYSTEMS - USE OR REFER TO PULSE WIDTH (PW)	54	57	50	75	63	55						
		0 913 2 PULSE MODULATION SYSTEMS - USE OR REFER TO PULSE SHAPE	54	57	50	75	63	56						
		0 914 2 PULSE MODULATION SYSTEMS - USE OR REFER TO PEAK POWER	53	56	50	75	62	55						
		0 915 2 PULSE MODULATION SYSTEMS - USE OR REFER TO AVERAGE POWER	53	57	49	75	62	56						
		0 916 2 PULSE MODULATION SYSTEMS - USE OR REFER TO DUTY CYCLE (DC)	48	50	45	75	52	49						
		0 917 2 PULSE MODULATION SYSTEMS - CALCULATE PULSE RECURRENCE TIME (PRT) OR PULSE RECURRENCE FREQUENCY (PRF)	47	49	43	75	54	48						

OCCUPATIONAL ANALYSIS PROGRAM
USAFOMC (ATC) RANDOLPH AFB TXTASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TSK	ALL	5		7		9		5		5	
		SKL	SKL	SKL	SKL	US	O's	SPC	SPC	SPC	SPC
0 918 2 PULSE MODULATION SYSTEMS - MEASURE PULSE RECURRENCE (PRF)	50	53	47	67	60	51					
0 919 2 PULSE MODULATION SYSTEMS - USE FORMULAS TO CALCULATE AVERAGE POWER OR PEAK POWER OF PULSE MODULATION SYSTEMS	45	46	43	67	45	47					
0 920 2 PULSE MODULATION SYSTEMS - TRACE SIGNALS OR CURRENT PATHS THROUGH TRANSMITTER SCHEMATIC DIAGRAMS	50	54	46	58	58	53					
0 921 2 PULSE MODULATION SYSTEMS - TRACE SIGNALS OR CURRENT PATHS THROUGH RECEIVER SCHEMATIC DIAGRAMS	47	51	41	58	57	50					
0 922 3 ANTENNAS - WORK WITH	65	70	59	67	75	69					
0 923 3 ANTENNAS - INSPECT	69	70	55	67	72	70					
0 924 3 ANTENNAS - CLEAN	55	64	44	25	71	63					
0 925 3 ANTENNAS - PHYSICALLY ALIGN	52	58	44	33	68	56					
0 926 3 ANTENNAS - ELECTRICALLY ALIGN	51	57	43	33	69	54					
0 927 3 ANTENNAS - TROUBLESHOOT TO	54	62	44	33	72	59					
0 928 3 ANTENNAS - TROUBLESHOOT TO COMPONENTS	51	58	42	33	69	55					
0 929 3 ANTENNAS - REMOVE OR INSTALL	30	34	25	33	51	29					
0 930 3 ANTENNAS - REMOVE OR REPLACE COMPONENTS	49	57	39	33	66	55					
0 931 3 ANTENNAS - USE OR REFER TO TECHNICAL DATA CONTAINING REPRESENTATIONS OF ECR ELECTRIC FIELD LINES	23	24	21	25	28	23					
0 932 3 ANTENNAS - USE OR REFER TO TECHNICAL DATA CONTAINING REPRESENTATIONS OF H OR MAGNETIC FIELD LINES	21	21	20	25	25	20					
0 933 3 ANTENNAS - DETERMINE THE DIRECTION OF THE MAGNETIC LINES IN RELATION TO THE ELECTRIC LINES OF FORCE	15	18	12	17	25	16					
0 934 3 ANTENNAS - USE OR REFER TO THE GENERAL RULE THAT ANTENNAS OF CORRECT LENGTH (HALF-WAVE) ACT AS RESISTIVE LOADS TO THE GENERATOR	19	22	15	25	23	23					
0 935 3 ANTENNAS - USE OR REFER TO THE GENERAL RULE THAT ANTENNAS LONGER THAN HALF-WAVE ACT AS INDUCTIVE LOADS TO THE GENERATOR	13	14	11	17	18	14					
0 936 3 ANTENNAS - USE OR REFER TO THE GENERAL RULE THAT ANTENNAS SHOTER THAN A HALF-WAVE ACT AS CAPACITIVE LOADS TO THE GENERATOR	13	14	11	17	18	14					
0 937 3 ANTENNAS - WORK WITH HERTZ	4	6	2	0	14	3					
0 938 3 ANTENNAS - WORK WITH MARCONI	2	2	2	0	3	2					
0 939 3 ANTENNAS - WORK WITH RHOMBIC	3	3	2	0	6	2					
0 940 3 ANTENNAS - WORK WITH DIPOLE	22	22	21	42	34	19					
0 941 3 ANTENNAS - WORK WITH SCIMITAR	2	3	1	0	6	1					
0 942 3 ANTENNAS - WORK WITH PARABOLIC	54	57	51	67	45	56					
0 943 3 ANTENNAS - WORK WITH GROUND PLANE	8	10	5	8	14	9					
0 944 2 ANTENNAS - WORK WITH BROADSIDE ARRAYS	5	4	5	17	6	4					
0 945 3 ANTENNAS - WORK WITH END-FIRE ARRAYS	3	4	2	0	6	3					
0 946 3 ANTENNAS - WORK WITH CARCIOFO ARRAYS	4	3	5	0	6	2					
0 947 3 ANTENNAS - WORK WITH COLLINEAR ARRAYS	5	6	2	0	8	6					
0 948 3 ANTENNAS - WORK WITH PHASE ARRAYS	16	17	15	25	23	15					
0 949 3 ANTENNAS - USE OR REFER TO THE TERM ELECTROMAGNETIC INDUCTION FIELDS	10	12	7	0	14	12					

PCT MEMBERS RESP. YES - 303X2 DAFSC/CONUS/OS GRPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

D-Y-TSK	5 7 9 5 5 SKL SKL SCL US 0's									
	ALL	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
0.950 3 ANTENNAS - MEASURE ELECTROMAGNETIC INDUCTION FIELDS OF RADIATION FIELDS	5	7	3	0	11	7				
0.952 3 ANTENNAS - USE OR REFER TO THE TIME PHASE OF ELECTROMAGNETIC RADIATION FIELDS	21	21	20	17	25	22				
0.953 3 ANTENNAS - USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) AND MAGNETIC (H) COMPONENTS IN AN ANTENNA ROTATION	8	10	6	0	12	10				
0.954 3 ANTENNAS - USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) AND MAGNETIC (H) COMPONENTS IN AN ANTENNA INDUCTION FIELD	9	10	7	0	18	9				
0.955 3 ANTENNAS - WORK ON LINEARLY POLARIZED	7	6	6	0	14	7				
0.956 3 ANTENNAS - WORK ON CIRCULAR POLARIZED	39	39	42	40	40	40				
0.957 3 ANTENNAS - MEASURE OR DETERMINE THE POLARITY OF	29	31	42	31	32					
0.958 3 ANTENNAS - CONSTRUCT, OR MAKE CALCULATIONS NECESSARY TO CONSTRUCT ANTENNAS OF CORRECT LENGTH FOR SPECIFIC WAVE LENGTHS	17	16	17	12	19					
0.959 3 ANTENNAS - WORK WITH ANTENNA ARRAYS CONTAINING PARASITIC ELEMENTS SERVING AS DIRECTORS	3	3	4	6	5	2				
0.960 3 ANTENNAS - WORK WITH ANTENNA ARRAYS CONTAINING PARASITIC ELEMENTS SERVING AS REFLECTORS	14	17	11	8	23	15				
0.961 3 ANTENNAS - DON'T KNOW WHAT KIND OF ELEMENT ARRAYS WORKED ON CONTAIN	22	29	13	8	29	28				
0.962 3 ANTENNAS - WORK ON UNIDIRECTIONAL	42	46	42	45	47					
0.963 3 ANTENNAS - WORK ON BI-DIRECTIONAL	24	27	20	33	31	26				
0.964 3 ANTENNAS - WORK WITH ROTARY ARRAYS	38	42	34	58	58	51				
P 965 1 TRANSMISSION LINES - WORK WITH	32	35	29	33	45	34	TRANSMISSION LINES			
P 966 1 TRANSMISSION LINES - REFER TO OR USE COPPER LOSS OR I2R LOSS	5	5	4	0	11	9				
P 967 1 TRANSMISSION LINES - REFER TO OR USE SMIN EFFECTS OF HIGH FREQUENCY CURRENTS IN	7	7	6	0	9	8				
P 968 1 TRANSMISSION LINES - REFER TO OR USE RADIATION LOSS IN HIGH FREQUENCY LINES - REFER TO OR USE DIELECTRIC LOSS IN	12	13	12	8	20	12				
P 969 1 TRANSMISSION LINES - REFER TO OR USE LEAKAGE LOSSES IN	10	11	9	0	12	11				
P 970 1 TRANSMISSION LINES - WORK WITH TWISTED PAIR	14	15	12	17	15	17				
P 971 1 TRANSMISSION LINES - WORK WITH TWIN LEAD	5	6	4	8	12	5				
P 972 1 TRANSMISSION LINES - WORK WITH OPEN TWO-WIRE	5	7	4	6	11	6				
P 973 1 TRANSMISSION LINES - WORK WITH FLEXIBLE COAXIAL CABLE	4	6	2	0	11	5				
P 974 1 TRANSMISSION LINES - WORK WITH RIGID COAXIAL CABLE	30	32	27	33	40	31				
P 975 1 TRANSMISSION LINES - TROUBLESHOOT	26	30	26	33	40	26				
P 976 1 TRANSMISSION LINES - ANALYZE VOLTAGE OR CURRENT WAVEFORMS	28	32	23	25	47	30				
P 977 1 TRANSMISSION LINES - TO DETERMINE THE TYPE OF TERMINATION (OPEN, SHORTED, CAPACITIVE, INDUCTIVE)	17	18	14	17	26	17				
P 978 1 TRANSMISSION LINES - SELECT APPROPRIATE TERMINATIONS TO ACHIEVE DESIRED WAVEFORMS	22	22	17	25	37	21				
P 979 1 TRANSMISSION LINES - USE OR REFER TO SCHEMATIC SYMBOLS FOR LINE TERMINATIONS IN TERMS OF CIRCUIT TERMINATIONS	22	22	21	25	27	22				
P 980 1 TRANSMISSION LINES - MEASURE STANDING WAVE RATIOS (SWR)	20	34	25	17	35	30				
P 981 1 TRANSMISSION LINES - CALCULATE STANDING WAVE RATIOS (SWR)	22	24	19	17	29	24				
P 982 1 TRANSMISSION LINES - PERFORM THE CALCULATIONS NECESSARY TO DETERMINE THE IMPEDANCE AND LENGTH OF QUARTER-WAVELENGTH MATCHING TRANSFORMERS TO MATCH TRANSMISSION LINES TO LOADS	6	6	8	8	6	6				

PCT HIGH RATES YES - 3032 CENSUS/05 GRPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

OCCUPATIONAL ANALYSIS PROGRAM
USAFCOM (ATC) RANDOLPH AFB TX

PCT MBR'S RESP 'YES' - 103X2 CAFSC/CONUS/OS GRPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

Dy-Task

	ALL	SKL	SKL	US	US	0's
	SPC	SPC	SPC	SPC	SPC	SPC
P 983 1 TRANSMISSION LINES - WORK WITH LINES WHICH ARE MATCHED TO LOADS USING MATCHING TRANSFORMERS	15	18	11	17	20	19
P 984 1 TRANSMISSION LINES - WORK WITH LINES WHICH ARE MATCHED TO LOADS USING DELTA MATCHING	8	10	5	8	14	10
P 985 2 TRANSMISSION LINES - USE OR REFER TO THE TERM CHARACTERISTIC IMPEDANCE (20)	16	16	17	17	18	16
P 986 3 TRANSMISSION LINES - CALCULATE THE CHARACTERISTIC IMPEDANCE (20)	7	7	6	0	11	8
P 987 4 TRANSMISSION LINES - USE OR REFER TO THE TERM CUT OFF FREQUENCY	6	7	4	8	11	7
P 988 5 TRANSMISSION LINES - USE OR REFER TO THE TERM VELOCITY FACTOR (1)	5	5	6	0	8	4
P 989 1 TRANSMISSION LINES - COMPUTE THE ELECTRICAL LENGTH OF LINES FOR PARTICULAR FREQUENCIES	9	10	8	8	12	9
P 990 1 TRANSMISSION LINES - CONSTRUCT LINES OF PARTICULAR ELECTRICAL LENGTHS FOR GIVEN FREQUENCIES	9	10	7	8	15	10
P 991 1 TRANSMISSION LINES - USE OR REFER TO THE GENERAL RULE THAT AS THE FREQUENCY INCREASES AND THE PHYSICAL LENGTH OF TRANSMISSION LINES REMAIN CONSTANT, THE ELECTRICAL LENGTH INCREASES	7	7	7	8	9	8
P 992 1 TRANSMISSION LINES - WORK WITH NONRESONANT (FLAT)	7	9	5	8	15	6
P 993 1 TRANSMISSION LINES - WORK WITH RESONANT	13	15	11	6	20	14
P 994 1 TRANSMISSION LINES - WORK WITH LINES WHICH ARE MATCHED TO LOADS USING STUB MATCHING	13	12	13	6	14	12
P 995 2 WAVEGUIDES OR CAVITY RESONATORS - WORK WITH	60	64	55	67	72	62
P 996 2 WAVEGUIDES OR CAVITY RESONATORS - INSPECT	59	64	52	67	72	62
P 997 2 WAVEGUIDES OR CAVITY RESONATORS - CLEAN	52	60	42	25	68	58
P 998 2 WAVEGUIDES OR CAVITY RESONATORS - PRESSURIZE	55	62	46	8	72	59
P 999 2 WAVEGUIDES OR CAVITY RESONATORS - PURGE	66	50	41	0	55	49
P 1000 2 WAVEGUIDES OR CAVITY RESONATORS - TROUBLESHOOT	47	52	39	33	60	50
P 1001 2 WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL	41	46	33	33	65	40
P 1002 2 WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL	53	59	46	33	74	55
P 1003 2 WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL	64	49	37	33	62	44
P 1004 2 WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL	34	36	32	25	52	32
P 1005 2 WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL	34	35	32	25	49	31
P 1006 2 WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL	37	42	30	17	55	38
P 1007 2 WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL	35	37	32	17	45	35
P 1008 2 WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL	44	49	39	33	66	43
P 1009 2 WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL	46	54	40	33	69	50

PCT MTRS RESP 'YES' - 303X2 DAFSC/COMUS/OS GRPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

D/T/SK	ALL	5		7		9		5		5		0's
		SKL	SKL	SKL	SKL	US	US	SPC	SPC	SPC	SPC	
P1010 2 WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL BIDIRECTIONAL COUPLERS	49	49	49	36	33	60	46					
P1011 2 WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL WAVEGUIDE SHUTTERS	29	32	25	25	31	33						
P1012 2 WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL TRANSMIT (TR) OR ANTI-TRANSMIT (ATR) TUBES	46	53	38	33	55	52						
P1013 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO "A"	13	13	12	17	14	13						
P1014 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO "B"	13	13	12	17	14	13						
P1015 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO CUI OF FREQUENCY	14	14	13	0	17	14						
P1016 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO POWER-DETERMINING WALL	12	14	9	8	17	14						
P1017 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO FREQUENCY-DETERMINING WALL	10	13	7	8	14	13						
P1018 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO ELECTRIC FIELD BOUNDARY CONDITIONS	9	10	5	9	12	10						
P1019 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO MAGNETIC FIELD BOUNDARY CONDITIONS	8	10	5	0	12	10						
P1020 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO DUPLEXER FIELD BOUNDARY CONDITIONS	8	10	5	0	12	10						
P1021 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO THE GENERAL RULE THAT MOST WAVEGUIDES ARE MADE WITH A "B" OF WALL SIZE OF $\lambda/7$. WAVELENGTHS OF THE OPERATING FREQUENCY GENERAL RULE THAT MOST "A" WALL RANGE FROM $\lambda/2$ TO $\lambda/5$	9	10	7	8	11	11						
P1022 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO THE GENERAL RULE THAT MOST "A" WALL RANGE FROM $\lambda/2$ TO $\lambda/5$	7	8	6	8	9	9						
P1023 2 WAVEGUIDES OR CAVITY RESONATORS - COMPUTE THE LENGTH OF A WAVEGUIDE FOR SPECIFIC INSTALLATION	6	8	4	0	9	7						
P1024 2 WAVEGUIDES OR CAVITY RESONATORS - USE THE RIGHT HAND RULE TO DETERMINE THE DIRECTION OF PROPAGATION, DIRECTION OF "E" FIELD, OR DIRECTION OF "H" LINES IN WAVEGUIDES	12	13	11	0	14	13						
P1025 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO THE TIME PHASE OF PEAK "E" OR "H" LINES IN WAVEGUIDES	6	7	5	0	8	7						
P1026 2 WAVEGUIDES OR CAVITY RESONATORS - ENERGY COUPLING USED OF "E" OR "H" LINES IN WAVEGUIDES	5	6	3	0	6	6						
P1027 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO THE SPACE QUADRATURE OF "E" OR "H" LINES IN WAVEGUIDES	5	6	3	0	6	6						
P1028 2 WAVEGUIDES OR CAVITY RESONATORS - ENERGY COUPLING USED - HIGH POWER PROBES	34	34	34	42	43	32						
P1029 2 WAVEGUIDES OR CAVITY RESONATORS - ENERGY COUPLING USED - LOW POWER PROBES	31	27	35	42	34	26						
P1030 2 WAVEGUIDES OR CAVITY RESONATORS - ENERGY COUPLING USED - LOOPS	16	37	36	58	38	37						
P1031 2 WAVEGUIDES OR CAVITY RESONATORS - ENERGY COUPLING USED - APERTURES (INDOORS OR IRISSES)	47	47	42	52	46							

TASK GROUP SUMMARY

PERCENT MEMBERS PERFORMING

TASK	GROUP	RESP	5	7	9	5	0's	SKL					
								ALL	SKL	SPC	SPC	SPC	SPC
DY-TSK													
P1032	2	WAVEGUIDES OR CAVITY RESONATORS - JOINTS USED - CHOME	45	43	48	58	49	43					
P1033	2	WAVEGUIDES OR CAVITY RESONATORS - JOINTS USED - ROTATING	55	57	51	67	65	56					
P1034	2	WAVEGUIDES OR CAVITY RESONATORS - JOINTS USED - DON'T KNOW KIND	9	12	6	0	14	11					
P1035	2	WAVEGUIDES OR CAVITY RESONATORS - TUNE CAVITY RESONATORS	30	33	26	25	38	31					
P1036	2	WAVEGUIDES OR CAVITY RESONATORS - TUNE CAVITY RESONATORS USING ELECTRICAL METHODS	36	40	32	42	35	42					
P1037	2	WAVEGUIDES OR CAVITY RESONATORS - MEASURE THE FREQUENCY OF SIGNALS ON CAVITY RESONATORS	31	34	27	42	29	35					
P1038	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - WORK WITH KLYSTRONS, TRAVELING WAVE TUBES (TWT), PARAMETRIC AMPLIFIERS, OR MAGNETRONS	54	58	49	67	58	58	MICROWAVE AMPLIFIERS AND OSCILLATORS				
P1039	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - USE OR REFER TO INTERELECTRODE CAPACITANCE	18	20	15	8	20	21					
P1040	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - USE OR REFER TO ELECTRON TRANSIT TIME	19	22	16	8	23	22					
P1041	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - USE OR REFER TO LEAD INDUCTANCE	13	15	12	8	15	15					
P1042	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - USE OR REFER TO RF LOSSES IN EXTERNAL CIRCUITRY	26	29	23	25	31	29					
P1043	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - USE OR REFER TO PRINCIPLE OF ELECTRON VELOCITY MODULATION	26	26	27	8	26	26					
P1044	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - USE OR REFER TO ELECTRON BUNCHING	31	31	8	31	31	32					
P1045	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - WORK WITH TWO- CAVITY KLYSTRONS	7	7	7	8	12	6					
P1046	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - WORK WITH THREE- CAVITY KLYSTRONS	32	31	32	8	28	33					
P1047	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - WORK WITH REFLEX KLYSTRONS	18	16	22	42	15	16					
P1048	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - WORK WITH TRAVELING-WAVE TUBES (TWT)	31	32	30	25	35	29					
P1049	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - WORK WITH MONODEFERALINE PARAMETRIC AMPLIFIERS	8	10	6	6	8	11					
P1050	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - WORK WITH BACKWAVE CONVERTER PARAMETRIC AMPLIFIERS	6	7	4	17	11	6					
P1051	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - WORK WITH MAGNETRONS	21	23	19	58	20	24					
P1052	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - WORK WITH BACKWAVE WAVE OSCILLATORS (BWO)	19	20	17	17	20	21					
P1053	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - INSPECT KLYSTRONS OR TWT'S	42	43	47	58	51	41					
P1054	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - CLEAN KLYSTRONS OR TWT'S	36	40	31	17	49	38					
P1055	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - TUNE KLYSTRONS OR TWT ELECTRICALLY	29	31	27	25	38	29					

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING	Dy-PSM	5 9 5 5									
		ALL		SKL		US		0's		SPC	
		SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
P1056 3 MICROWAVE AMPLIFIERS AND OSCILLATORS - TUNE KLYSTRONS OR TUT MECHANICALLY		32	36	26	25	35	36				
P1057 3 MICROWAVE AMPLIFIERS OR OSCILLATORS - PERFORM OPERATIONAL CHECKS OF KLYSTRONS OR TUTS		42	47	37	33	55	44				
P1058 3 MICROWAVE AMPLIFIERS AND OSCILLATORS - TROUBLESHOOT KLYSTRONS OR TUTS		40	44	35	25	54	41				
P1059 3 MICROWAVE AMPLIFIERS AND OSCILLATORS - REMOVE OR REPLACE COMPLETE KLYSTRON OR TUT		41	46	34	25	57	43				
P1060 3 MICROWAVE AMPLIFIERS AND OSCILLATORS - REMOVE OR REPLACE KLYSTRON OR TUT COMPONENTS		24	28	19	8	35	27				
P1061 3 MICROWAVE AMPLIFIERS AND OSCILLATORS - INSPECT PARAMETRIC AMPLIFIERS		13	15	11	50	14	16				
P1062 3 PARAMETRIC AMPLIFIERS - CLEAN		12	14	9	17	14	14				
P1063 3 PARAMETRIC AMPLIFIERS - ADJUST		13	15	10	14	14	15				
P1064 3 PARAMETRIC AMPLIFIERS - TUNE		13	14	11	25	12	15				
P1065 3 PARAMETRIC AMPLIFIERS - PERFORM OPERATIONAL CHECKS		14	15	12	33	11	17				
P1066 3 PARAMETRIC AMPLIFIERS - TROUBLESHOOT		13	15	10	25	14	15				
P1067 3 PARAMETRIC AMPLIFIERS - REMOVE OR REPLACE		11	13	9	23	12	13				
P1068 3 PARAMETRIC AMPLIFIERS - REMOVE OR REPLACE COMPONENTS		10	12	6	27	14	12				
P1069 3 MAGNETRONS - INSPECT		19	19	17	58	14	22				
P1070 3 MAGNETRONS - CLEAN		16	19	13	25	14	21				
P1071 3 MAGNETRONS - ADJUST		17	19	14	25	15	21				
P1072 3 MAGNETRONS - TUNE		17	18	15	25	15	20				
P1073 3 MAGNETRONS - PERFORM OPERATIONAL CHECKS		19	22	16	42	18	23				
P1074 3 MAGNETRONS - REMOVE OR REPLACE		16	18	14	25	17	19				
P1075 3 MAGNETRONS - REMOVE OR REPLACE COMPONENTS		16	18	13	25	15	20				
P1076 3 MAGNETRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF COLLECTOR PLATES		10	11	8	0	8	12				
P1077 3 TWO CAVITY KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF FEEDBACK LOOPS		7	7	8	12	6					
P1078 3 TWO CAVITY KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF CATCHER CAVITIES		6	6	5	8	11	5				
P1079 3 TWO CAVITY KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF CATCHER GRIDS		5	7	4	8	12	5				
P1080 3 TWO CAVITY KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF BUNCHER CAVITIES		6	7	5	8	12	5				
P1081 3 TWO CAVITY KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF CONTROL GRIDS		6	6	5	8	12	5				
P1082 3 TWO CAVITY KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF BUNCHER GRIDS		5	6	5	8	11	5				
P1083 3 TWO CAVITY KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF BUNCHER CAVITIES		5	6	4	8	11	5				
P1084 3 TWO CAVITY KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF CATHODES		6	7	6	8	11	6				
P1085 3 TWO CAVITY KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF CATHODES		8	6	8	8	12	7				
P1086 3 REFLEX KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF REPELLEUR (REFLECTOR) PLATES		14	12	17	42	12	12				

MBRS AESP 'YES' - 383X2 DAFSC/CONUS/QS GRPS

**OCCUPATIONAL ANALYSIS PROGRAM
USAFOMC (ATC) RANDOLPH AFB TX**

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

	D-Y-TASK	OCCUPATIONAL ANALYSIS PROGRAM						STORAGE DEVICES	
		5		7		9			
		ALL	SKL	SKL	SKL	US	0'S		
		SPC	SPC	SPC	SPC	SPC	SPC		
		014	016	017	022	025	026		
	Q1116 1 REGISTERS - USE OR REFER TO SHIFT	29	28	32	33	52	20		
	Q1117 1 REGISTERS - USE OR REFER TO LOGIC SYMBOLS OF SHIFT	28	26	30	33	52	19		
	Q1118 1 REGISTERS - USE OR REFER TO LOGIC SYMBOLS OF STORAGE	27	26	29	33	51	19		
	Q1119 1 REGISTERS - TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF SHIFT	26	26	26	25	49	19		
	Q1120 1 REGISTERS - TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF SHIFT	24	25	24	25	48	18		
	Q1121 1 REGISTERS - DETERMINE THE STATE OF EACH FLIP-FLOP OF A SHIFT REGISTER AFTER A SPECIFIED NUMBER OF SHIFT PULSES HAVE PASSED	24	24	24	25	49	16		
	Q1122 2 STORAGE DEVICES - WORK WITH	27	27	28	28	49	21	STORAGE DEVICES	
	Q1123 2 STORAGE DEVICES - USE OR REFER TO DELAY LINES	26	28	23	17	49	21		
	Q1124 2 STORAGE DEVICES - USE OR REFER TO MAGNETIC CORES OR BIMAGS	4	3	5	17	5	3		
	Q1125 2 STORAGE DEVICES - USE OR REFER TO MAGNETIC DRUMS	3	2	3	3	3	2		
	Q1126 2 STORAGE DEVICES - USE OR REFER TO MAGNETIC TAPE	3	2	5	6	5	1		
	Q1127 2 STORAGE DEVICES - USE OR REFER TO ACES TIME OR SPEED OF MEMORY SYSTEMS	7	5	6	6	9	4		
	Q1128 2 STORAGE DEVICES - USE OR REFER TO STORAGE CAPACITY OF MEMORY SYSTEMS	12	11	13	6	23	6		
	Q1129 2 STORAGE DEVICES - USE OR REFER TO VOLATILITY OF MEMORY SYSTEMS	5	4	6	6	6	3		
	Q1130 2 STORAGE DEVICES - USE OR REFER TO LOGIC SYMBOL OF DELAY LINES	16	16	17	37	10			
	Q1131 2 STORAGE DEVICES - USE OR REFER TO MAGNETIC DISKS	3	3	3	8	5	1		
	Q1132 2 STORAGE DEVICES - USE OR REFER TO THIN FILM	2	2	2	8	6	2		
	Q1133 2 STORAGE DEVICES - USE OR REFER TO SEMICONDUCTOR MEMORY INTEGRATED CIRCUITS	16	15	18	17	37	9		
	Q1134 2 STORAGE DEVICES - USE OR REFER TO BUBBLE MEMORY	2	1	2	6	5	0		
	Q1135 2 STORAGE DEVICES - USE OR REFER TO PUNCH CARDS	4	2	6	6	6	1		
	Q1136 2 STORAGE DEVICES - USE OR REFER TO PAPER TAPE	2	1	3	6	2	0		
	Q1137 2 STORAGE DEVICES - USE OR REFER TO RANDOM ACCESS MEMORY (RAM)	10	10	11	17	25	6		
	Q1138 2 STORAGE DEVICES - USE OR REFER TO READ ONLY MEMORY (ROM)	15	16	15	17	37	10		
	Q1139 2 STORAGE DEVICES - USE OR REFER TO PROGRAMMABLE READ ONLY MEMORY (PROM)	15	15	15	8	37	8		
	Q1140 2 STORAGE DEVICES - USE OR REFER TO TRANSFORMER READ ONLY	2	2	1	8	6	1		
	Q1141 2 STORAGE DEVICES - USE OR REFER TO CAPACITY READ ONLY	2	2	1	8	6	1		
	Q1142 2 STORAGE DEVICES - INSPECT	16	22	14	25	46	14		
	Q1143 2 STORAGE DEVICES - CLEAN	16	20	11	6	46	14		
	Q1144 2 STORAGE DEVICES - ALIGN	12	15	9	8	32	10		
	Q1145 2 STORAGE DEVICES - ADJUST	12	15	7	6	31	11		
	Q1146 2 STORAGE DEVICES - TROUBLESHOOT MEMORY SYSTEMS	16	18	13	17	43	12		
	Q1147 2 STORAGE DEVICES - REMOVE OR REPLACE SUBASSEMBLIES OR COMPONENTS	16	19	12	17	43	12		

PCT MBR'S RESP. YES - 303X2 DAFSC/CONUS/OS GRPS

OCCUPATIONAL ANALYSIS PROGRAM
USAFORC (ATC) RANDOLPH AFB IX

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

TASK	GROUP	PERCENT	S						S						S					
			AI.J.	SKL	SKL	SPC														
Q1148 2 STORAGE DEVICES - TRACE SIGNAL FLOW USING LOGIC DIAGRAMS FOR SCHEMATICS	DY-TSM	7	9	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Q1149 3 DIGITAL-TO-ANALOG (D/A) OR (ANALOG-TO-DIGITAL (A/D)) CONVERTERS - WORK WITH		25	22	28	17	48	14													
Q1150 3 DIGITAL-TO-ANALOG (D/A) OR (ANALOG-TO-DIGITAL (A/D)) CONVERTERS - COMPUTE OUTPUT VOLTAGES FOR ELECTROMECHANICAL		12	12	12	8	20	9													
Q1151 3 DIGITAL-TO-ANALOG (D/A) OR (ANALOG-TO-DIGITAL (A/D)) CONVERTERS - USE OR REFER TO THE GENERAL RULE THAT THE COUNT IN ELECTROMECHANICAL (D/A) CONVERTERS IS DETERMINED BY ADDING THE DENOMINATORS OF THE RESISTORS		8	8	8	6	15	6													
Q1152 3 DIGITAL-TO-ANALOG (D/A) OR (ANALOG-TO-DIGITAL (A/D)) CONVERTERS - COMPUTE ANALOG VOLTAGES FOR GIVEN BINARY COUNTS IN ELECTRONIC (D/A) CONVERTER		14	13	15	17	28	8													
Q1153 3 ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS - PERFORM TASKS ON SAMPLE FUNCTION		11	11	11	8	26	6													
Q1154 3 ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS - PERFORM 3 TASKS ON HOLD FUNCTION		10	10	11	8	23	5													
Q1155 3 ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS - PERFORM 3 TASKS ON COMPARE FUNCTION		12	11	12	17	31	5													
Q1156 3 ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS - PERFORM 3 TASKS ON DIGITIZE FUNCTION		12	11	14	17	28	5													
Q1157 3 ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS - DON'T KNOW WHICH FUNCTION TASKS PERFORMED ON		6	6	6	0	19	3													
Q1158 3 ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS - USE OR REFER TO SAMPLE FUNCTION		13	11	15	8	26	7													
Q1159 2 ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS - USE OR REFER TO HOLD FUNCTION		11	10	13	6	23	6													
Q1160 2 ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS - USE OR REFER TO COMPARE FUNCTION		12	11	14	17	24	6													
Q1161 2 ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS - USE OR REFER TO DIGITAL FUNCTION		16	15	17	17	35	9													
Q1162 2 ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS - PERFORM 3 TASKS ON MECHANICAL (A/D) CONVERTERS		7	6	8	17	12	3													
Q1163 2 ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS - PERFORM 3 TASKS ON ELECTRONIC (A/D) CONVERTERS		18	17	21	17	40	9													
Q1164 2 DIGITAL-TO-ANALOG (D/A) CONVERTER CIRCUITS - PERFORM 3 TASKS ON		18	17	18	17	42	9													
R1165 1 PHANTASTRON - WORK WITH PHANTASTRON CIRCUITRY		16	16	25	18	15														
R1166 2 SCHMITT TRIGGER CIRCUITS - WORK WITH		29	34	23	33	49	31													
R1167 2 SCHMITT TRIGGER CIRCUITS - TRACE DATA FLOW THROUGH SCHEMATIC DIAGRAMS OF		26	31	29	25	40	29													
R1168 2 SCHMITT TRIGGER CIRCUITS - USE OR REFER TO LOGIC SYMBOLS FOR		21	24	18	33	40	29													
R1169 3 CABLE FABRICATION - FABRICATE MULTICONDUCTOR CABLES		53	59	44	33	67	58													
R1170 3 CABLE FABRICATION - FABRICATE COAXIAL CABLES		61	69	50	33	77	61													
SI111 1 INPUT/OUTPUT PERIPHERAL DEVICES ON TERMS - WORK WITH		32	36	28	50	60	29													

DEVICES

INPUT/OUTPUT (PERIPHERAL)

DEVICES

CABLE FABRICATION

DEVICES

PHANTASTRONS

SCHMITT TRIGGERS

PCT MBR'S RESP *YES* - 303X2 DAFSC/CONUS/OS GRPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

TASK	GROUP	SUMMARY	PERCENT MEMBERS PERFORMING											
			DY-TSK			ALL			SKL			US		
			SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
\$1172 1 INPUT/OUTPUT (PERIPHERAL) DEVICES OR TERMS - USE OR REFER TO KEYBOARDS OR TELETYPEWRITERS			5	4	6	25	2	4						
\$1173 1 INPUT/OUTPUT (PERIPHERAL) DEVICES OR TERMS - USE OR REFER TO PRINTERS			6	4	8	33	2	5						
\$1174 1 INPUT/OUTPUT (PERIPHERAL) DEVICES OR TERMS - USE OR REFER TO TAPE DRIVES (UNITS)			4	2	6	8	3	2						
\$1175 1 INPUT/OUTPUT (PERIPHERAL) DEVICES OR TERMS - USE OR REFER TO CARD READERS/CARD PUNCH			4	2	6	17	0	2						
\$1176 1 INPUT/OUTPUT (PERIPHERAL) DEVICES OR TERMS - USE OR REFER TO VIDEO DISPLAYS (CRTS)			29	31	27	50	48	26						
\$1177 1 INPUT/OUTPUT (PERIPHERAL) DEVICES OR TERMS - USE OR REFER TO NIXIE LIGHTS (TUBES)			9	8	11	33	12	7						
\$1178 1 INPUT/OUTPUT (PERIPHERAL) DEVICES OR TERMS - USE OR REFER TO LEDs			23	23	22	25	51	15						
\$1179 1 INPUT/OUTPUT (PERIPHERAL) DEVICES OR TERMS - USE OR REFER TO LCOS			9	7	10	17	11	6						
\$1180 1 INPUT/OUTPUT (PERIPHERAL) DEVICES OR TERMS - USE OR REFER TO INCANDESCENT DISPLAYS			11	11	11	17	23	8						
\$1181 1 INPUT/OUTPUT (PERIPHERAL) DEVICES OR TERMS - USE OR REFER TO TOGGLE OR PUSH BUTTON SWITCH INPUTS			24	24	50	40	20							
\$1182 1 INPUT/OUTPUT (PERIPHERAL) DEVICES OR TERMS - USE OR REFER TO INTERFACE ADAPTER UNITS			2	7	10	8	15	5						
\$1183 1 INPUT/OUTPUT (PERIPHERAL) DEVICES OR TERMS - USE OR REFER TO TAPE READERS			2	2	5	8	2	2						
\$1184 1 INPUT/OUTPUT (PERIPHERAL) DEVICES OR TERMS - USE OR REFER TO TAPE PUNCHES - WORK WITH			3	1	4	8	2	1						
\$1185 3 SYNCHRONOUS VIBRATIONS (CHOPPER CIRCUITS) - WORK WITH			19	19	20	17	26	17						
\$1186 3 SYNCHRONOUS VIBRATIONS (CHOPPER CIRCUITS) - WORK WITH			20	19	21	8	23	2C						
\$1187 3 SYNCHRONOUS VIBRATIONS (CHOPPER CIRCUITS) - USE OR REFER TO EXCITATION FREQUENCIES			12	11	14	6	12	11						
\$1188 3 SYNCHRONOUS VIBRATIONS (CHOPPER CIRCUITS) - USE OR REFER TO VOLTAGE-CURRENT PHASE RELATIONSHIPS			12	12	13	8	14	12						
\$1189 3 SYNCHRONOUS VIBRATIONS (CHOPPER CIRCUITS) - MEASURE CHOPPER COIL EXCITATION FREQUENCIES			1C	1C	10	6	14	9						
\$1190 3 SYNCHRONOUS VIBRATIONS (CHOPPER CIRCUITS) - MEASURE CHOPPER COIL VOLTAGE-CURRENT PHASE RELATIONSHIPS			10	9	10	8	12	9						
\$1191 3 SYNCHRONOUS VIBRATIONS (CHOPPER CIRCUITS) - USE SERVOS			13	15	10	8	14	16						
\$1192 3 SYNCHRONOUS VIBRATIONS (CHOPPER CIRCUITS) - USE DETECTORS IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION			23	13	13	8	14	14						
\$1193 3 SYNCHRONOUS VIBRATIONS (CHOPPER CIRCUITS) - USE ERROR SIGNAL DEVICES IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION			16	16	16	8	17	17						
\$1194 3 SYNCHRONOUS VIBRATIONS (CHOPPER CIRCUITS) - USE COMPARISON CIRCUITS IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION			17	17	17	9	14	17						
\$1195 1 INFRARED SYSTEMS - WORK WITH			2	2	1	2	2	2						

OCCUPATIONAL ANALYSIS PROGRAM
USAFCOMC (ATC) RANDOLPH AFB IX

INFRARED SYSTEMS

OCCUPATIONAL ANALYSIS PROGRAM
USAFOMC (ATC) RANDOLPH AFB TX

PCT M8RS RESP .YES.- 303X2 DAFSC/COMUS/OS GROUPS

OCCUPATIONAL ANALYSIS PROGRAM
USAFCOM (ATC) RANDOLPH AFB IX

TASK GROUP SUMMARY

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING		DY-TSM					
		ALT.	SKL	SKL	US	O's	SPC
		SPC	SPC	SPC	SPC	SPC	SPC
T1243	2 LASER SYSTEMS - USE, OR REFER TO MONOCHROMATIC	5	7	9	5	5	
T1244	2 LASER SYSTEMS - WORK WITH ACTIVE MATERIALS	0	0	0	0	0	
T1245	2 LASER SYSTEMS - WORK WITH PUMPING SOURCES	0	0	0	0	0	
T1246	2 LASER SYSTEMS - WORK WITH FULL SILVERED (100% REFLECTIVE)	0	1	0	0	1	
MIRRORS - WORK WITH HALF SILVERED (90% REFLECTIVE)		0	0	0	0	0	
T1247	2 LASER SYSTEMS - WORK WITH HELICAL FLASHTUBES	0	0	0	0	0	
T1249	2 LASER SYSTEMS - WORK WITH RUBY	0	0	0	0	0	
T1250	2 LASER SYSTEMS - WORK WITH HELIUM-NEON	0	0	0	0	0	
T1251	2 LASER SYSTEMS - WORK WITH HELIUM-XENON	0	0	0	0	0	
T1252	2 LASER SYSTEMS - WORK WITH XENON	0	0	0	0	0	
T1253	2 LASER SYSTEMS - WORK WITH CESIUM-HELIM	0	0	0	0	0	
T1254	2 LASER SYSTEMS - WORK WITH ARGON	0	0	0	0	0	
T1255	2 LASER SYSTEMS - WORK WITH NEODYMIUM IN GLASS	0	0	0	0	0	
T1256	2 LASER SYSTEMS - WORK WITH GALLIUM ARSENIDE	0	0	0	0	0	
T1257	3 DISPLAY TUBES - WORK WITH DISPLAY TUBES, SUCH AS DIRECT VIEW STORAGE (DVST), MULTIPLE MODE STORAGE TUBES (MMST), OR SCAN CONVERTER TUBES (SCT)	2	3	1	8	2	DISPLAY TUBES
T1258	3 DISPLAY TUBES - DIRECT VIEW STORAGE (DVST) OR MULTIPLE MODE STORAGE (MMST) - INSPECT	1	2	1	6	0	
T1259	3 DISPLAY TUBES - DIRECT VIEW STORAGE (DVST) OR MULTIPLE MODE STORAGE (MMST) - CLEAN	1	2	1	7	0	
T1260	3 DISPLAY TUBES - DIRECT VIEW STORAGE (DVST) OR MULTIPLE MODE STORAGE (MMST) - ADJUST OR CALIBRATE	1	1	0	0	2	
T1261	3 DISPLAY TUBES - DIRECT VIEW STORAGE (DVST) OR MULTIPLE MODE STORAGE (MMST) - OPERATE SYSTEMS THAT CONTAIN DVST OR MMST	1	2	1	6	0	
T1262	3 DISPLAY TUBES - DIRECT VIEW STORAGE (DVST) OR MULTIPLE MODE STORAGE (MMST) - TROUBLESHOOT CIRCUITS	1	1	1	8	0	
T1263	3 DISPLAY TUBES - DIRECT VIEW STORAGE (DVST) OR MULTIPLE MODE STORAGE (MMST) - REMOVE OR REPLACE TUBES FROM MAJOR ASSEMBLIES OR UNITS	1	1	1	6	0	
T1264	3 DISPLAY TUBES - DIRECT VIEW STORAGE (DVST) OR MULTIPLE MODE STORAGE (MMST) - PERFORM TASKS THAT MAKE IT NECESSARY TO NAME VARIOUS ELEMENTS OF DVST	0	0	0	0	0	
T1265	3 DISPLAY TUBES - DIRECT VIEW STORAGE (DVST) OR MULTIPLE MODE STORAGE (MMST) - PERFORM TASKS THAT MAKE IT NECESSARY TO NAME VARIOUS ELEMENTS OF MMST	0	0	0	0	0	
T1266	3 DISPLAY TUBES - SCAN CONVERTER TUBES (SCT) - PERFORM TASKS THAT MAKE IT NECESSARY TO NAME VARIOUS ELEMENTS OF SCT	0	0	0	0	0	
T1267	3 DISPLAY TUBES - PERFORM TASKS ON FLOOD GUNS	0	0	0	0	0	
T1268	3 DISPLAY TUBES - PERFORM TASKS ON WRITE GUNS	1	1	0	0	2	
T1269	3 DISPLAY TUBES - PERFORM TASKS ON PLEAD GUNS	1	1	0	0	2	
T1270	3 DISPLAY TUBES - PERFORM TASKS ON ATTACK GUNS	0	0	0	0	0	
T1271	3 DISPLAY TUBES - PERFORM TASKS ON ERASE GUNS	1	1	0	0	2	

PCT. MBR'S RESP. YES - 30322 DAFSC/CONUS/OS GRPS.

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

OCCUPATIONAL ANALYSIS PROGRAM
USAFAOMC (ATC) RANDOLPH AFB TX

OY-TSK	PERCENT MEMBERS PERFORMING									
	5	7	9	5	7	9	5	7	9	5
	ALI	SKL	SKL	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	014	016	C17	022	025	026				
11272 3 DISPLAY TUBES - PERFORM TASKS ON STORAGE GRIDS	1	1	0	8	0	0	2	2	2	2
11273 4 TELEVISION (TV) SYSTEMS - PERFORM TASKS DEALING WITH TV SYSTEMS INCLUDING LOW LIGHT TV	2	2	2	25	2	2	2	2	2	2
11274 4 TELEVISION (TV) SYSTEMS - INSPECT	0	0	0	25	0	0	0	0	0	0
11275 4 TELEVISION (TV) SYSTEMS - CLEAN	1	1	0	8	2	2	0	0	0	0
11276 4 TELEVISION (TV) SYSTEMS - ADJUST	1	1	0	8	0	0	1	1	0	0
11277 4 TELEVISION (TV) SYSTEMS - OPERATE	1	1	1	8	0	0	1	1	0	0
11278 4 TELEVISION (TV) SYSTEMS - TROUBLESHOOT WIRE CONNECTIONS	0	0	0	8	0	0	0	0	0	0
11279 4 TELEVISION (TV) SYSTEMS - TROUBLESHOOT MAJOR ASSEMBLIES OF	0	0	0	8	0	0	0	0	0	0
11280 4 TELEVISION (TV) SYSTEMS - TROUBLESHOOT DOWN TO COMPONENT PARTS	0	0	0	8	0	0	0	0	0	0
11281 4 TELEVISION (TV) SYSTEMS - REMOVE OR REPLACE MAJOR ASSEMBLIES	0	0	0	8	0	0	0	0	0	0
11282 4 TELEVISION (TV) SYSTEMS - REMOVE OR REPLACE COMPONENT PARTS	0	0	0	8	0	0	0	0	0	0
U1283 1 PROGRAMMING - PERFORM PROGRAMMING TASKS	6	7	5	8	18	4	PROBLEMS			
U1284 1 PROGRAMMING - USE OR REFER TO DECIMAL SYSTEMS	5	6	5	8	17	2				
U1285 1 PROGRAMMING - USE OR REFER TO OCTAL SYSTEMS	5	5	4	8	14	2				
U1286 1 PROGRAMMING - USE OR REFER TO HEXAGONAL SYSTEMS	2	2	1	8	5	1				
U1287 1 PROGRAMMING - USE OR REFER TO B-4-2-1 SYSTEMS	1	1	1	8	3	0				
U1288 1 PROGRAMMING - USE OR REFER TO FOUR SYSTEMS	1	1	1	8	3	0				
U1289 1 PROGRAMMING - USE OR REFER TO BINARY SYSTEMS	5	6	5	8	16	2				
U1290 1 PROGRAMMING - USE OR REFER TO TIME-SHARING (MULTI-SEQUENCING)	6	5	3	8	14	3				
U1291 1 PROGRAMMING - USE OR REFER TO DATA WORDS	6	5	3	8	12	3				
U1292 1 PROGRAMMING - USE OR REFER TO ADDRESS WORDS	5	5	4	8	14	2				
U1293 1 PROGRAMMING - USE OR REFER TO ADDRESS/SUBADDRESS	4	4	3	8	9	2				
U1294 1 PROGRAMMING - USE OR REFER TO STEERING/INFORMATION WORDS	3	3	2	8	8	1				
U1295 1 PROGRAMMING - USE OR REFER TO INSTRUCTION WORDS	4	4	3	8	9	2				
U1296 1 PROGRAMMING - USE OR REFER TO DAP-16	2	1	0	8	3	0				
U1297 1 PROGRAMMING - USE OR REFER TO BINARY CODED DECIMAL (BCD)	5	6	4	6	17	2				
U1298 1 PROGRAMMING - USE OR REFER TO CONTROL WORDS	3	3	3	8	8	1				
U1299 1 PROGRAMMING - USE OR REFER TO RESPONSE WORDS	2	2	1	6	6	1				
U1300 1 PROGRAMMING - USE OR REFER TO WRAPAROUND WORDS	1	1	0	8	7	1				
U1301 1 PROGRAMMING - USE OR REFER TO TO TEST OR DIAGNOSTIC PROGRAMS	5	4	8	14	2					
U1302 1 PROGRAMMING - USE OR REFER TO RELIABILITY PROGRAMS	2	2	3	8	5	2				
U1303 1 PROGRAMMING - USE OR REFER TO COMPILERS	2	2	1	3	6	1				
U1304 1 PROGRAMMING - USE OR REFER TO ASSEMBLERS	1	1	1	8	3	1				
U1305 1 PROGRAMMING - USE OR REFER TO MACHINE LANGUAGE	1	1	2	8	3	0				
U1306 1 PROGRAMMING - USE OR REFER TO MNEMONICS	2	2	2	8	6	0				
U1307 1 PROGRAMMING - USE OR REFER TO ROUTINES OR SUBROUTINES	3	1	4	8	5	1				
U1308 1 PROGRAMMING - USE OR REFER TO FLOW CHARTS OR DIAGRAMS	4	4	4	8	15	1				
U1309 1 PROGRAMMING - USE OR REFER TO ATLAS	0	0	0	8	3	0				
U1310 1 PROGRAMMING - USE OR REFER TO ELAN	0	1	0	8	3	0				

**OCCUPATIONAL ANALYSIS PROGRAM
USAFORC (ATC) RANDOLPH AFB TX**

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STATS 540102 COURSE A

All.	S			9			5			3			0's		
	SKI.	SKI.	SKI.	US	US	US	SPC								
014	016	017	018	022	022	025	025	025	025	025	025	025	025	025	025
2	1	3	0	6	6	1	1	1	1	1	1	1	1	1	1
1	1	2	0	3	3	2	1	1	1	1	1	1	1	1	1
1	1	1	0	3	3	0	1	1	1	1	1	1	1	1	1
3	4	2	8	11	11	1	4	3	8	14	1	4	3	8	14
4	4	5	3	6	17	2	5	3	8	17	2	5	3	8	17
4	4	5	2	6	15	2	5	2	6	15	2	5	2	6	15
4	4	5	1	1	11	1	5	1	1	11	1	5	1	1	11
3	3	3	0	1	11	1	3	3	2	17	1	3	3	2	17
3	3	3	0	1	17	2	3	3	2	17	2	3	3	2	17
5	5	5	0	1	17	2	5	5	2	17	2	5	5	2	17
5	5	5	0	1	17	2	5	5	2	17	2	5	5	2	17
2	2	2	0	1	11	1	2	2	2	11	1	2	2	2	11
4	4	4	0	1	14	1	4	4	2	14	1	4	4	2	14
4	4	4	0	1	14	1	4	4	2	14	1	4	4	2	14
9	9	9	0	1	14	1	9	9	2	14	1	9	9	2	14
72	72	72	0	1	14	1	72	72	0	14	1	72	72	0	14
12	12	12	0	1	23	3	12	12	0	23	3	12	12	0	23
71	71	71	0	1	23	3	71	71	0	23	3	71	71	0	23
67	67	67	0	1	27	5	67	67	0	27	5	67	67	0	27
29	29	29	0	1	29	5	29	29	0	29	5	29	29	0	29
6	6	6	0	1	27	5	6	6	0	27	5	6	6	0	27
4	4	4	0	1	27	5	4	4	0	27	5	4	4	0	27